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Supplement to

Changes in Farmers Stock Peanuts in Storage

Marketing Significance

Supplement to Marketing Research Report No. 381
Agricultural Marketing Service
Marketing Economics Research Division
UNITED STATES DEPARTMENT OF AGRICULTURE

Supplement to Marketing Research Report No. 381

CHANGES IN FARMERS STOCK PEANUTS IN STORAGE
Marketing Significance

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Table 10.--Change in grade factors of 1952-crop farmers stock peanuts during bulk storage, by type of peanuts 1/

Type and grade factor	Composite sample: At purchase	Composite sample: When loaded in	Average of samples from all positions: November 1952	December 1952	January 1953	February 1953	March 1953	April 1953	May 1953	June 1953	July 1953	August 1953	Composite sample when loaded out
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners:													
Sound mature kernels	65.2	64.1	64.4	63.2	63.5	63.8	63.7	63.0	63.1	63.9	64.4	--	63.6
Damaged kernels	.2	.7	.7	.9	1.3	1.2	1.3	1.6	1.6	1.2	1.0	--	1.4
Other kernels	5.8	5.4	5.9	6.3	6.2	6.0	6.0	6.4	6.7	6.0	6.0	--	6.3
Foreign material	4.0	4.1	4.5	4.6	4.4	4.5	4.2	4.6	4.3	4.8	4.9	--	4.7
Kernel moisture	8.0	6.6	7.3	7.0	7.2	7.0	6.5	6.1	5.3	5.6	5.4	--	5.6
Southeast Spanish:													
Sound mature kernels	66.6	66.6	--	--	63.9	62.8	64.4	63.4	64.5	63.9	63.5	--	62.7
Damaged kernels	1.1	1.1	--	--	2.6	3.6	2.6	2.0	2.4	3.0	4.5	--	2.3
Other kernels	7.3	7.3	--	--	7.9	7.8	7.9	9.1	7.8	7.8	7.9	--	8.3
Foreign material	4.9	4.9	--	--	5.4	4.1	5.2	5.0	4.4	5.3	5.5	--	4.7
Kernel moisture	5.5	5.5	--	--	7.1	7.2	5.4	5.3	4.9	5.8	6.0	--	5.0
Southwest Spanish:													
Sound mature kernels	62.0	62.0	63.0	62.5	63.0	62.6	61.1	60.2	59.6	59.6	62.2	63.0	60.9
Damaged kernels	1.3	1.3	1.5	1.8	1.7	1.7	1.9	2.1	2.4	3.2	1.6	2.0	2.3
Other kernels	6.0	6.0	6.5	6.6	6.4	6.6	7.4	8.3	8.4	8.3	7.6	7.2	7.9
Foreign material	6.0	6.0	11.3	8.8	6.7	7.5	7.4	6.1	5.9	5.7	5.5	6.7	6.0
Kernel moisture	8.6	8.6	8.5	7.0	5.7	5.5	5.8	5.4	5.1	5.1	4.6	5.2	5.1
Virginia type:													
Sound mature kernels	66.0	66.0	--	64.0	63.9	63.1	63.2	64.2	64.3	64.3	64.6	62.0	63.6
Damaged kernels	.7	.7	--	1.6	1.5	2.1	1.8	1.6	1.6	1.7	2.1	4.4	2.7
Other kernels	2.7	2.7	--	3.4	3.4	3.5	3.0	3.3	3.4	2.8	2.5	3.0	2.7
Foreign material	2.3	2.3	--	4.7	4.0	3.7	3.6	3.0	5.0	3.9	3.2	3.4	3.6
Kernel moisture	8.9	8.9	--	8.6	7.8	7.8	7.8	6.0	7.1	6.6	6.7	6.9	6.4
Fancy size	89.3	89.3	--	83.1	88.2	83.9	85.2	87.6	82.9	91.2	91.7	90.0	90.0
Extra large kernels	39.0	39.0	--	33.9	34.7	33.2	32.7	33.6	38.5	39.5	41.6	35.9	38.2

1/ Data exclude bins held over for further observation.

Table 11.--Change in grade factors of 1953-crop farmers stock peanuts during bulk storage, by type of peanuts 1/

Type and grade factor	Composite sample: At purchase	Composite sample: When loaded in	Average of samples from all positions: November or December 1953	January 1954	March 1954	May 1954	July 1954	August 1954	Composite sample when loaded out
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners:									
Sound mature kernels	62.3	61.1	62.4	62.4	63.0	63.1	62.6	62.9	59.7
Damaged kernels	1.0	1.0	1.2	1.5	1.6	1.4	1.7	2.1	1.9
Other kernels	6.2	6.1	6.4	6.0	5.7	6.0	6.3	5.8	7.7
Foreign material	4.8	4.0	4.5	4.1	4.4	4.3	4.2	4.3	4.7
Kernel moisture	10.5	9.6	6.8	7.0	5.6	5.0	5.0	4.5	4.2
Southeast Spanish:									
Sound mature kernels	74.0	74.0	--	73.8	70.9	72.6	71.7	--	70.7
Damaged kernels	1.9	1.9	--	1.4	2.1	2.6	2.3	--	2.0
Other kernels	3.3	3.3	--	3.1	5.2	3.9	3.8	--	6.0
Foreign material	3.8	3.8	--	6.2	2.6	4.3	4.4	--	4.0
Kernel moisture	8.1	8.1	--	6.7	5.9	5.9	7.0	--	4.6
Southwest Spanish:									
Sound mature kernels	71.7	74.0	72.1	72.5	72.2	72.2	71.9	72.2	73.5
Damaged kernels	1.4	1.0	1.5	1.3	1.6	1.3	1.5	1.2	1.5
Other kernels	3.5	2.5	3.1	2.6	3.4	2.7	3.2	2.8	2.7
Foreign material	10.6	8.0	12.2	11.9	13.2	17.6	13.9	12.2	5.5
Kernel moisture	8.3	7.2	6.7	5.5	4.2	5.2	4.0	3.7	4.0
Virginia type:									
Sound mature kernels	--	62.7	64.2	64.8	64.6	64.3	64.8	--	62.5
Damaged kernels	--	3.0	1.6	1.7	2.4	1.5	1.9	--	2.7
Other kernels	--	3.0	2.8	3.0	2.4	3.0	2.2	--	3.0
Foreign material	--	2.7	4.4	5.3	5.0	4.3	5.9	--	4.0
Kernel moisture	--	8.1	7.7	9.6	6.3	8.3	6.7	--	6.2
Fancy size	--	79.7	74.9	73.0	67.8	71.7	74.7	--	74.8
Extra large kernels	--	33.7	33.9	36.8	32.9	33.7	34.2	--	33.2

1/ Data exclude bins held over for further observation.

Table 12.--Change in grade factors of 1954-crop farmers stock peanuts during bulk storage, by type of peanuts 1/

Type and grade factor	Composite sample: At purchase	Composite sample: When loaded in	Average of samples from all positions: November 1954	December 1954 or January 1955	February or March 1955	April or May 1955	June or July 1955	Composite sample when loaded out
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners:								
Sound mature kernels	66.3	64.9	--	66.8	66.8	67.2	64.7	63.2
Damaged kernels	1.4	1.4	--	1.6	1.1	1.2	1.9	2.0
Other kernels	4.5	4.8	--	4.0	4.4	4.2	5.4	7.2
Foreign material	5.4	3.5	--	4.9	5.2	4.9	4.8	4.4
Kernel moisture	11.1	10.3	--	6.0	6.2	5.1	5.1	5.2
Southeast Spanish:								
Sound mature kernels	65.6	61.3	61.3	61.5	61.6	60.0	59.0	63.0
Damaged kernels	1.9	3.8	3.8	3.4	3.2	3.1	3.8	3.3
Other kernels	4.1	6.2	6.2	6.5	6.6	7.0	7.1	6.0
Foreign material	5.3	6.2	6.2	5.5	5.6	5.1	6.2	8.3
Kernel moisture	10.8	5.9	5.9	5.3	5.3	5.1	5.1	5.0
Southwest Spanish:								
Sound mature kernels	67.7	64.8	69.4	65.7	66.0	63.9	66.1	66.5
Damaged kernels	1.1	1.5	1.8	1.6	1.2	1.2	1.0	1.0
Other kernels	4.8	6.5	4.6	5.4	5.3	7.9	6.0	6.0
Foreign material	5.6	6.0	5.0	6.5	5.3	6.0	4.9	8.0
Kernel moisture	10.3	8.0	10.0	6.7	5.5	5.5	6.0	6.0
Virginia type:								
Sound mature kernels	64.0	65.3	--	64.6	65.1	64.2	57.1	57.0
Damaged kernels	1.3	1.5	--	1.8	1.1	1.2	7.6	8.7
Other kernels	4.3	3.7	--	4.3	4.0	4.2	5.4	3.0
Foreign material	3.3	3.0	--	4.8	5.1	5.4	5.9	5.7
Kernel moisture	9.7	8.7	--	8.2	7.6	7.8	7.0	6.9
Fancy size	67.0	75.3	--	62.7	62.4	54.2	54.8	61.3
Extra large kernels	27.7	29.3	--	26.9	26.0	24.4	21.6	21.0

1/ Data exclude bins held over for further observation.

Table 13.--Change in grade factors of 1955-crop farmers stock peanuts during bulk storage, by type of peanuts 1/

Type and grade factor	Composite sample: At purchase	Average of samples from all positions: When loaded in	September or October 1955	November or December 1955	January or February 1956	March or April 1956	May or June 1956	Composite sample when loaded out
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners: 2/								
Sound mature kernels	70.6	70.6	70.6	68.5	--	68.8	--	67.8
Damaged kernels	.7	.7	.8	1.6	--	1.8	--	2.8
Other kernels	2.6	2.6	3.4	3.8	--	3.6	--	4.0
Foreign material	4.3	4.3	2.6	1.9	--	1.8	--	2.3
Kernel moisture	12.9	12.9	8.8	6.3	--	6.4	--	5.6
Southeast Spanish:								
Sound mature kernels	72.0	72.0	--	74.1	73.3	--	71.4	71.4
Damaged kernels	2.4	2.4	--	1.7	1.8	--	3.1	3.1
Other kernels	3.8	3.8	--	3.1	3.3	--	3.9	3.9
Foreign material	6.8	6.8	--	7.2	4.9	--	6.6	6.6
Kernel moisture	9.3	9.3	--	6.5	6.3	--	5.9	5.9
Southwest Spanish:								
Sound mature kernels	66.6	65.8	--	64.5	64.2	64.1	64.4	64.0
Damaged kernels	1.2	1.3	--	1.2	1.3	1.6	1.1	1.1
Other kernels	6.3	6.0	--	6.7	6.4	6.4	6.6	6.8
Foreign material	6.3	6.0	--	6.6	6.6	6.7	8.0	7.4
Kernel moisture	7.8	--	--	--	4.9	5.3	4.1	3.9
Virginia type:								
Sound mature kernels	65.5	63.5	--	--	63.6	63.4	63.3	63.3
Damaged kernels	0	.5	--	--	.9	.9	.9	.9
Other kernels	5.5	6.5	--	--	6.4	6.4	6.7	6.7
Foreign material	3.5	5.5	--	--	13.0	7.4	9.9	9.9
Kernel moisture	11.5	12.2	--	--	8.5	6.6	7.2	7.2
Fancy size	48.4	53.5	--	--	51.2	53.1	44.6	44.6
Extra large kernels	23.5	22.5	--	--	16.3	16.1	15.4	15.4

1/ Data exclude bins on a schedule of sampling on an in-and-out basis only.

2/ Data for Alabama include several bins held over for second year observation. Composite out data for holdover bins based on samples drawn in May 1956.

Table 14.--Change in grade factors of 1956-crop farmers stock peanuts during bulk storage, by type of peanuts

Type and grade factor	Composite sample: At purchase	Composite sample: When loaded in	Average of samples from all positions: November 1956	December 1956	January or February 1957	March or April 1957	May or June 1957	Composite sample when loaded out
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners: 1/								
Sound mature kernels	68.3	72.3	--	--	--	--	71.6	71.5
Damaged kernels	.5	0	--	--	--	--	.3	.3
Other kernels	7.5	3.7	--	--	--	--	3.9	3.8
Foreign material	3.7	2.2	--	--	--	--	2.1	1.5
Kernel moisture	7.7	6.7	--	--	--	--	6.0	5.7
Southeast Spanish: 2/								
Sound mature kernels	72.2	72.2	71.9	--	71.8	--	71.0	70.0
Damaged kernels	1.8	1.8	2.2	--	2.4	--	3.1	3.0
Other kernels	5.1	5.1	3.0	--	3.6	--	3.2	4.0
Foreign material	3.7	3.7	3.9	--	3.5	--	3.7	3.7
Kernel moisture	9.3	9.3	5.8	--	6.6	--	6.2	5.7
Southwest Spanish:								
Sound mature kernels	62.8	62.8	--	65.5	--	64.7	64.3	64.0
Damaged kernels	.6	.6	--	.7	--	1.5	1.1	1.5
Other kernels	9.7	9.7	--	5.0	--	5.4	4.8	5.0
Foreign material	6.3	6.3	--	6.6	--	6.9	6.8	6.3
Kernel moisture	10.4	10.4	--	7.5	--	7.1	7.5	7.5
Virginia type: 2/								
Sound mature kernels	73.0	71.8	71.5	70.8	70.7	70.5	73.0	72.0
Damaged kernels	1.0	1.0	1.2	1.7	1.8	1.4	1.4	2.5
Other kernels	1.0	1.0	1.1	1.2	1.0	2.0	1.0	1.0
Foreign material	1.0	1.2	1.2	1.0	1.4	1.8	2.7	1.5
Kernel moisture	10.0	10.0	10.0	13.4	9.0	7.5	7.5	7.0
Fancy size	78.5	79.6	80.3	76.8	79.4	75.5	67.7	74.5
Extra large kernels	46.0	41.1	41.3	39.3	40.8	38.7	41.2	42.0

1/ Data exclude bins treated with lindane and held over for further observation.
2/ Data exclude bins on a schedule of sampling on an in-and-out basis only.

Table 15.--Change in grade factors of 1952-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins

Peanut type and grade factor, and kind and size of bin	Composite sample: At purchase	Composite sample: When loaded in	Average of samples from all positions: January 1953	March 1953	May 1953	July 1953	Composite sample when loaded out
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 5:							
Sound mature kernels	66.8	66.0	64.9	65.0	64.3	65.0	64.1
Damaged kernels	0	0	1.7	2.1	4.3	1.9	2.7
Other kernels	5.1	4.0	5.9	5.4	7.0	5.4	6.4
Foreign material	4.2	3.5	4.7	4.1	4.3	3.9	4.4
Kernel moisture	11.50	6.80	6.97	6.27	4.69	5.27	5.10
Bin No. 6:							
Sound mature kernels	63.2	63.0	62.3	63.7	63.9	63.3	63.2
Damaged kernels	0	0	.9	1.1	1.1	1.1	1.1
Other kernels	7.3	6.0	7.0	6.1	7.1	7.3	7.2
Foreign material	6.3	7.0	6.9	5.0	5.0	7.0	6.1
Kernel moisture	5.30	5.80	6.54	6.19	4.96	5.40	5.50
Bin No. 7:							
Sound mature kernels	65.3	70.0	65.6	64.7	64.7	66.4	65.7
Damaged kernels	0	0	1.1	.9	1.3	.7	.9
Other kernels	6.0	3.0	5.4	5.9	6.6	5.4	5.7
Foreign material	7.0	3.5	5.6	4.7	4.6	5.9	5.0
Kernel moisture	8.40	7.00	7.00	6.11	4.50	5.21	5.20
Average:							
Sound mature kernels	65.1	66.3	64.3	64.5	64.3	64.9	64.3
Damaged kernels	0	0	1.2	1.4	2.2	1.2	1.6
Other kernels	6.1	4.3	6.1	5.8	6.9	6.0	6.4
Foreign material	5.8	4.7	5.7	4.6	4.6	5.6	5.2
Kernel moisture	8.40	6.53	6.84	6.19	4.72	5.29	5.30
2. Perforated metal floor, mechanical ventilation (drying):							
Bin No. 1:							
Sound mature kernels	59.0	53.0	56.3	56.0	57.3	58.3	57.3
Damaged kernels	0	2.0	2.3	2.6	3.0	1.0	2.0
Other kernels	8.5	11.0	9.3	8.3	9.7	9.3	9.3
Foreign material	3.0	3.0	3.3	4.0	3.0	4.3	4.2
Kernel moisture	11.00	6.40	7.30	7.10	5.70	5.70	6.10
Bin No. 2:							
Sound mature kernels	66.5	64.0	65.0	64.4	57.3	65.0	61.9
Damaged kernels	0	1.0	.7	.7	.9	.7	.9
Other kernels	5.5	4.0	5.4	5.4	6.4	5.1	5.9
Foreign material	4.0	9.0	6.0	5.7	6.0	6.0	5.9
Kernel moisture	5.30	6.20	5.80	6.69	6.47	6.20	6.30
Bin No. 3:							
Sound mature kernels	63.4	63.0	61.9	63.7	60.7	61.7	60.8
Damaged kernels	0	0	.9	1.1	1.3	1.0	1.3
Other kernels	5.6	5.0	6.1	5.3	6.7	6.4	6.6
Foreign material	3.0	2.0	2.4	2.9	2.6	3.9	3.3
Kernel moisture	8.00	7.40	7.39	7.19	5.80	5.37	6.10

--Continued

Table 15.--Change in grade factors of 1952-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1953	March 1953	May 1953	July 1953	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners--Continued							
Average:							
Sound mature kernels	63.0	60.0	61.1	61.4	58.4	61.7	60.0
Damaged kernels	0	1.0	1.3	1.5	1.7	.9	1.4
Other kernels	6.5	6.7	6.9	6.3	7.6	7.6	7.3
Foreign material	3.3	4.7	3.9	4.2	3.9	4.7	4.5
Kernel moisture	8.10	6.67	6.83	6.99	5.99	5.76	6.20
3. Solid metal floor, standard exhaust vent (tight):							
Bin No. 8:							
Sound mature kernels	64.4	64.0	63.7	64.9	63.4	63.7	63.2
Damaged kernels	0	0	1.1	1.4	1.1	1.0	1.2
Other kernels	6.1	5.0	5.4	5.0	6.4	6.6	6.2
Foreign material	4.2	3.5	3.6	3.7	3.9	4.3	4.0
Kernel moisture	8.40	6.90	7.59	6.86	5.09	5.24	6.20
Bin No. 9:							
Sound mature kernels	64.0	66.0	64.9	64.9	64.1	65.4	64.6
Damaged kernels	1.0	1.0	.7	1.1	1.3	.6	1.2
Other kernels	7.0	5.0	5.7	5.7	6.7	6.1	6.1
Foreign material	3.0	2.0	4.3	3.7	4.1	3.6	4.2
Kernel moisture	6.00	6.00	6.83	5.79	5.60	5.37	5.60
Bin No. 10:							
Sound mature kernels	65.4	66.0	62.7	63.9	63.3	62.9	63.2
Damaged kernels	0	0	.7	1.0	.9	1.4	1.0
Other kernels	6.2	5.0	8.6	6.7	7.9	7.0	7.4
Foreign material	5.7	5.5	7.7	5.0	6.0	6.9	6.5
Kernel moisture	5.00	5.90	5.74	6.03	4.97	5.40	5.30
Average:							
Sound mature kernels	64.6	65.3	63.7	64.6	63.6	64.0	63.7
Damaged kernels	.3	.3	.8	1.2	1.1	1.0	1.1
Other kernels	6.4	5.0	6.6	5.8	7.0	6.6	6.6
Foreign material	4.3	3.7	5.3	4.1	4.7	4.9	4.9
Kernel moisture	6.47	6.27	6.72	6.23	5.22	5.34	5.70
B. Steel tanks (12-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 16:							
Sound mature kernels	65.6	64.0	66.1	66.4	66.3	66.3	66.6
Damaged kernels	.8	1.0	1.0	.9	1.0	.9	.9
Other kernels	5.6	6.0	5.1	5.0	5.9	5.7	5.4
Foreign material	3.0	2.0	2.4	2.6	2.9	2.7	3.0
Kernel moisture	6.80	6.00	7.20	6.19	5.40	5.29	5.50
C. Steel tank (30-ton capacity):							
1. Perforated metal floor, mechanical ventilation (drying):							
Bin No. 18:							
Sound mature kernels	65.2	64.0	64.4	62.9	65.3	66.7	65.7
Damaged kernels	.6	0	.9	1.3	1.0	.7	.8
Other kernels	6.6	7.0	5.9	6.7	5.7	4.9	5.3
Foreign material	3.2	4.0	4.1	4.0	3.7	3.7	3.6
Kernel moisture	6.60	5.80	6.90	6.23	5.56	5.36	5.60

--Continued

Table 15.--Change in grade factors of 1952-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1953	March 1953	May 1953	July 1953	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners--Continued							
D. Wood crib (6-ton capacity):							
1. Tight sides, wood floor:							
Bin No. 13:							
Sound mature kernels	66.3	66.0	62.3	61.9	62.1	65.3	63.1
Damaged kernels	0	1.0	2.0	2.9	2.7	.7	2.1
Other kernels	4.6	4.0	6.6	6.7	7.4	6.4	6.8
Foreign material	4.6	6.0	5.6	4.3	5.6	7.4	6.3
Kernel moisture	10.40	6.80	8.93	7.14	4.80	4.61	5.10
2. Slatted sides, wood floor:							
Bin No. 14:							
Sound mature kernels	70.5	66.0	64.4	66.1	65.6	68.0	66.0
Damaged kernels	0	2.0	1.7	1.7	1.6	.7	1.5
Other kernels	3.1	2.0	4.3	4.4	5.1	4.0	4.8
Foreign material	2.1	3.0	3.4	3.3	2.9	2.7	3.0
Kernel moisture	13.40	10.80	7.90	7.14	5.66	5.63	5.70
Bin No. 15:							
Sound mature kernels	64.0	63.0	63.0	64.7	63.3	62.7	63.5
Damaged kernels	.8	1.0	1.0	.6	1.9	1.9	1.7
Other kernels	6.4	7.0	6.4	6.0	6.7	6.3	6.3
Foreign material	3.8	4.0	3.4	4.1	5.3	6.0	5.0
Kernel moisture	7.20	5.90	7.21	5.91	4.91	5.31	5.60
Average:							
Sound mature kernels	67.3	64.5	63.7	65.4	64.5	65.4	64.8
Damaged kernels	.4	1.5	1.4	1.2	1.8	1.3	1.6
Other kernels	4.8	4.5	5.4	5.2	5.9	5.2	5.6
Foreign material	2.0	3.5	3.4	3.7	4.1	4.4	4.0
Kernel moisture	10.30	8.35	7.56	6.53	5.29	5.47	5.70
E. Wood, unmatched lumber (6-ton capacity):							
1. Wood siding, wood floor:							
Bin No. 19:							
Sound mature kernels	68.0	64.0	64.3	63.9	65.0	65.4	65.1
Damaged kernels	0	1.0	1.0	.9	1.1	1.1	1.2
Other kernels	4.0	7.0	5.6	6.4	5.9	4.7	5.3
Foreign material	3.0	4.0	4.9	5.7	4.7	4.7	5.3
Kernel moisture	6.00	5.60	7.07	6.21	5.63	5.20	5.70
Southeast Spanish:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 1:							
Sound mature kernels	66.7	66.7	63.3	64.3	64.0	64.3	61.0
Damaged kernels	1.6	1.6	3.5	2.7	2.5	4.7	3.0
Other kernels	8.7	8.7	7.3	8.2	8.3	7.8	9.0
Foreign material	3.3	3.3	6.0	6.5	3.5	7.2	6.0
Kernel moisture	5.00	5.00	7.33	5.66	4.83	6.00	5.00

--Continued

Table 15.--Change in grade factors of 1952-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1953	March 1953	May 1953	July 1953	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Spanish--Continued							
Bin No. 2:							
Sound mature kernels	65.1	65.1	62.7	62.3	63.3	63.0	64.0
Damaged kernels	1.2	1.2	2.2	3.2	2.5	4.2	2.0
Other kernels	7.1	7.1	9.0	8.7	8.0	8.2	7.0
Foreign material	7.5	7.5	5.8	5.7	5.7	5.0	4.0
Kernel moisture	5.90	5.90	7.16	5.33	5.00	5.67	5.00
Bin No. 3:							
Sound mature kernels	68.0	68.0	65.8	66.7	66.3	63.3	63.0
Damaged kernels	1.5	1.5	2.2	2.0	2.2	4.7	2.0
Other kernels	6.0	6.0	7.3	6.8	7.2	7.7	9.0
Foreign material	4.0	4.0	4.3	3.3	4.0	4.2	4.0
Kernel moisture	5.50	5.50	6.80	5.30	5.00	6.00	5.0
Average:							
Sound mature kernels	66.6	66.6	63.9	64.4	64.5	63.5	62.7
Damaged kernels	1.1	1.1	2.6	2.6	2.4	4.5	2.3
Other kernels	7.3	7.3	7.9	7.9	7.8	7.9	8.3
Foreign material	4.9	4.9	5.4	5.2	4.4	5.5	4.7
Kernel moisture	5.50	5.50	7.10	5.43	4.94	5.89	5.00
Southwest Spanish:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 1:							
Sound mature kernels	64.0	64.0	63.2	62.2	60.8	62.2	61.1
Damaged kernels	1.0	1.0	1.7	1.5	1.8	1.7	2.1
Other kernels	5.0	5.0	6.3	6.3	7.8	7.2	7.4
Foreign material	5.0	5.0	5.0	6.0	5.2	6.3	5.9
Kernel moisture	10.96	10.96	5.54	5.50	5.09	4.61	4.90
Bin No. 3:							
Sound mature kernels	68.0	68.0	67.5	65.3	63.5	64.8	64.7
Damaged kernels	1.0	1.0	1.5	2.0	2.5	1.7	2.2
Other kernels	3.0	3.0	4.3	5.5	6.8	6.7	6.5
Foreign material	3.0	3.0	9.8	9.8	6.3	5.7	6.6
Kernel moisture	8.19	8.19	5.73	6.12	4.90	4.28	5.00
Bin No. 4:							
Sound mature kernels	54.0	54.0	58.3	55.8	54.5	59.7	56.9
Damaged kernels	2.0	2.0	2.0	2.3	2.8	1.3	2.5
Other kernels	10.0	10.0	8.5	10.3	10.7	8.8	9.9
Foreign material	10.0	10.0	5.2	6.3	6.3	4.5	5.4
Kernel moisture	6.53	6.53	5.82	5.73	5.38	4.80	5.30
Average:							
Sound mature kernels	62.0	62.0	63.0	61.1	59.6	62.2	60.9
Damaged kernels	1.3	1.3	1.7	1.9	2.4	1.6	2.3
Other kernels	6.0	6.0	6.4	7.4	8.4	7.6	7.9
Foreign material	6.0	6.0	6.7	7.4	5.9	5.5	6.0
Kernel moisture	8.56	8.56	5.70	5.78	5.12	4.56	5.10

--Continued

Table 15.--Change in grade factors of 1952-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1953	March 1953	May 1953	July 1953	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Virginia type:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin A:							
Sound mature kernels	66.0	66.0	61.8	61.0	62.0	63.2	62.1
Damaged kernels	0	0	2.0	2.2	2.0	1.7	2.6
Other kernels	2.0	2.0	4.0	4.0	4.0	2.8	3.1
Foreign material	3.0	3.0	4.8	4.2	5.8	5.3	5.0
Kernel moisture	8.00	8.00	7.67	7.30	6.74	6.80	6.50
Fancy size	92.0	92.0	86.2	88.0	84.5	91.0	89.8
Extra large kernels	41.0	41.0	34.2	33.2	37.3	40.3	37.6
Bin C:							
Sound mature kernels	66.0	66.0	65.2	64.7	65.7	65.7	65.1
Damaged kernels	1.0	1.0	1.5	1.2	1.5	1.8	2.4
Other kernels	3.0	3.0	2.7	2.3	3.0	2.2	2.4
Foreign material	2.0	2.0	3.7	3.5	4.3	2.2	3.0
Kernel moisture	9.33	9.33	7.99	7.97	7.01	6.39	6.30
Fancy size	88.0	88.0	90.3	81.0	84.0	91.0	91.1
Extra large kernels	38.0	38.0	35.7	33.7	40.2	43.0	39.8
Bin D:							
Sound mature kernels	66.0	66.0	64.7	63.8	65.2	65.0	63.7
Damaged kernels	1.0	1.0	1.0	2.0	1.3	2.7	3.1
Other kernels	3.0	3.0	3.5	2.7	3.2	2.2	2.5
Foreign material	2.0	2.0	3.5	3.0	5.0	2.2	2.9
Kernel moisture	9.33	9.33	7.59	8.26	7.40	6.81	6.50
Fancy size	88.0	88.0	88.2	86.7	80.3	93.0	89.2
Extra large kernels	38.0	38.0	33.2	31.3	38.0	41.5	37.2
Average:							
Sound mature kernels	66.0	66.0	63.9	63.2	64.3	64.6	63.6
Damaged kernels	.7	.7	1.5	1.8	1.6	2.1	2.7
Other kernels	2.7	2.7	3.4	3.0	3.4	2.5	2.7
Foreign material	2.3	2.3	4.0	3.6	5.0	3.2	3.6
Kernel moisture	8.89	8.89	7.75	7.84	7.05	6.67	6.40
Fancy size	89.3	89.3	88.2	85.2	82.9	91.7	90.0
Extra large kernels	39.0	39.0	34.7	32.7	38.5	41.6	38.2

Table 16.--Change in grade factors of 1953-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1954	March 1954	May 1954	July 1954	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 5:							
Sound mature kernels	55.3	56.0	56.6	59.0	57.4	57.7	50.0
Damaged kernels	.2	0	1.4	1.0	.9	1.4	2.0
Other kernels	9.5	7.0	8.6	7.1	7.9	8.3	10.0
Foreign material	6.1	6.0	4.9	5.9	7.7	7.3	6.0
Kernel moisture	8.7	7.4	5.8	5.7	5.1	4.5	4.2
Bin No. 6:							
Sound mature kernels	66.4	61.0	66.0	67.1	67.0	67.3	62.0
Damaged kernels	.7	1.0	2.1	2.1	1.7	2.0	2.0
Other kernels	4.3	7.0	4.4	4.4	4.0	4.3	8.0
Foreign material	4.7	3.0	3.0	4.9	4.4	5.8	5.0
Kernel moisture	6.9	6.5	6.1	5.4	4.5	4.3	4.2
Bin No. 20:							
Sound mature kernels	58.0	58.0	61.9	62.4	62.6	61.9	60.0
Damaged kernels	3.0	3.0	1.7	2.1	.9	3.1	4.0
Other kernels	8.0	8.0	6.7	6.9	7.4	6.7	8.0
Foreign material	2.0	2.0	1.5	1.7	1.3	2.7	3.0
Kernel moisture	10.1	10.1	7.3	4.7	4.0	4.2	3.4
Bin No. 21:							
Sound mature kernels	58.0	58.0	59.3	59.1	61.6	59.6	58.0
Damaged kernels	4.0	4.0	2.0	2.7	3.0	2.6	4.0
Other kernels	7.0	7.0	6.6	7.7	6.4	8.0	8.0
Foreign material	2.0	2.0	2.3	1.9	2.3	2.4	2.0
Kernel moisture	9.9	9.9	7.6	4.7	3.8	4.4	3.1
Average:							
Sound mature kernels	59.4	58.3	61.0	61.9	62.2	61.6	57.5
Damaged kernels	2.0	2.0	1.8	2.0	1.6	2.3	3.0
Other kernels	7.2	7.3	6.6	6.5	6.4	6.8	8.5
Foreign material	3.7	3.3	2.9	3.6	5.3	4.5	4.0
Kernel moisture	9.9	9.9	7.6	4.7	3.8	4.4	3.1
2. Perforated metal floor, mechanical ventilation (drying):							
Bin No. 1:							
Sound mature kernels	66.7	65.0	66.1	67.7	68.1	66.6	65.0
Damaged kernels	.6	0	1.0	.7	.9	1.1	1.0
Other kernels	4.2	5.0	3.9	2.9	2.7	4.4	5.0
Foreign material	4.0	3.0	3.9	5.1	4.6	4.3	5.0
Kernel moisture	8.8	7.6	6.1	5.6	5.7	4.7	4.6
Bin No. 2:							
Sound mature kernels	68.0	63.0	67.7	67.6	68.0	67.3	65.0
Damaged kernels	0	0	.6	.6	.9	1.0	1.0
Other kernels	3.3	5.0	3.0	2.9	2.6	3.6	4.0
Foreign material	5.2	4.0	4.4	4.0	3.9	3.3	4.0
Kernel moisture	9.7	8.4	6.4	5.8	5.9	5.5	4.6

--Continued

Table 16.--Change in grade factors of 1953-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1954	March 1954	May 1954	July 1954	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners--Continued							
Bin No. 3:							
Sound mature kernels	64.8	61.0	65.0	67.9	64.3	66.7	59.0
Damaged kernels	0	1.0	1.4	.7	1.6	1.1	1.0
Other kernels	6.2	6.0	5.9	4.3	5.9	4.9	10.0
Foreign material	4.6	3.0	4.2	3.3	3.3	3.1	4.0
Kernel moisture	12.0	10.7	6.6	5.5	5.7	5.3	5.2
Average:							
Sound mature kernels	66.5	63.0	66.3	67.7	66.8	66.9	63.0
Damaged kernels	.2	.3	1.0	.7	1.1	1.1	1.0
Other kernels	4.6	5.3	4.3	3.4	3.7	4.3	6.3
Foreign material	4.6	3.3	4.2	4.1	3.9	3.6	4.3
Kernel moisture	10.2	8.9	6.4	5.6	5.8	5.2	4.8
3. Solid metal floor, standard exhaust vent (tight):							
Bin No. 8:							
Sound mature kernels	59.1	61.0	61.3	63.1	63.3	64.1	62.0
Damaged kernels	0	0	.9	.9	.6	.9	1.0
Other kernels	9.1	7.0	6.9	6.0	6.9	6.1	6.0
Foreign material	4.7	4.0	4.3	5.0	6.0	5.0	7.0
Kernel moisture	9.0	9.0	5.9	5.5	5.1	4.4	3.8
Bin No. 10:							
Sound mature kernels	61.9	61.0	61.1	61.1	62.3	61.9	62.0
Damaged kernels	0	1.0	1.9	2.0	1.3	1.4	1.0
Other kernels	6.3	6.0	5.9	5.4	5.0	5.7	6.0
Foreign material	3.8	2.0	2.9	3.0	4.3	3.7	3.0
Kernel moisture	7.0	6.3	5.8	5.2	5.2	4.7	4.0
Bin No. 24:							
Sound mature kernels	65.0	68.0	65.0	64.7	64.3	65.1	60.0
Damaged kernels	2.8	1.0	2.3	3.4	3.4	2.9	5.0
Other kernels	4.6	3.0	4.1	4.3	4.4	4.6	6.0
Foreign material	3.0	3.0	3.9	3.6	3.9	4.3	3.0
Kernel moisture	10.2	10.7	7.8	6.4	4.2	4.9	4.0
Average:							
Sound mature kernels	62.0	63.3	62.5	63.0	63.3	63.7	61.3
Damaged kernels	.9	.7	1.7	2.1	1.8	1.7	2.3
Other kernels	6.7	5.3	5.6	5.2	5.4	5.5	6.0
Foreign material	3.8	3.3	3.7	3.9	4.7	4.3	4.3
Kernel moisture	8.7	8.7	6.5	5.6	4.8	4.7	4.0
B. Steel tanks (12-ton capacity:							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 16:							
Sound mature kernels	60.1	57.0	59.4	59.1	59.9	59.9	48.0
Damaged kernels	0	1.0	.7	2.0	1.4	1.3	2.0
Other kernels	7.5	9.0	8.3	7.1	7.3	8.0	14.0
Foreign material	5.5	5.0	4.6	5.7	4.7	5.1	4.0
Kernel moisture	9.9	8.8	6.7	5.7	5.0	5.0	3.9

--Continued

Table 16.--Change in grade factors of 1953-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1954	March 1954	May 1954	July 1954	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners--Continued							
Bin No. 29:							
Sound mature kernels	65.6	65.0	64.1	63.4	63.4	61.9	62.0
Damaged kernels	2.4	0	1.7	2.1	1.6	3.6	2.0
Other kernels	5.0	6.0	6.0	6.7	7.1	7.0	8.0
Foreign material	3.8	5.0	3.4	3.9	3.4	3.1	4.0
Kernel moisture	10.8	10.4	8.1	5.6	4.1	5.4	3.5
Average:							
Sound mature kernels	62.8	61.0	61.8	61.6	61.6	60.9	55.0
Damaged kernels	1.2	.5	1.2	2.0	1.5	2.4	2.0
Other kernels	6.2	7.5	7.2	6.9	7.2	7.5	11.0
Foreign material	4.6	5.0	4.0	4.8	4.0	4.1	4.0
Kernel moisture	10.4	9.6	7.4	5.6	4.6	5.2	3.7
C. Steel tanks (30-ton capacity):							
1. Perforated metal floor, mechanical ventilation (drying):							
Bin No. 18:							
Sound mature kernels	62.1	63.0	63.6	65.7	65.3	64.1	58.0
Damaged kernels	.8	2.0	2.3	1.6	1.0	1.0	2.0
Other kernels	6.2	5.0	5.2	4.6	5.4	6.0	8.0
Foreign material	4.5	5.0	4.4	4.6	4.1	3.4	5.0
Kernel moisture	11.3	10.7	7.0	6.1	5.3	5.4	4.9
D. Wood crib (6-ton capacity):							
1. Tight sides, wood floor:							
Bin No. 13:							
Sound mature kernels	66.4	61.0	64.0	66.3	65.1	63.1	64.0
Damaged kernels	1.0	0	.9	1.0	.7	1.0	0
Other kernels	4.4	6.0	5.9	4.4	5.3	6.1	6.0
Foreign material	6.9	2.0	7.7	7.0	5.4	3.9	4.0
Kernel moisture	11.0	10.7	6.9	5.4	5.3	4.7	4.1
2. Slatted sides, wood floor:							
Bin No. 14:							
Sound mature kernels	58.6	59.0	59.3	59.0	60.6	58.6	59.0
Damaged kernels	0	1.0	1.3	.9	1.4	.6	1.0
Other kernels	7.4	6.0	7.7	7.4	6.8	8.3	8.0
Foreign material	9.2	7.0	6.6	7.3	6.8	7.3	9.0
Kernel moisture	13.6	11.2	7.2	5.9	5.9	5.2	4.2
Bin No. 15:							
Sound mature kernels	60.3	60.0	62.0	62.1	60.9	60.3	58.0
Damaged kernels	0	0	1.0	.6	.7	1.1	2.0
Other kernels	7.0	6.0	5.9	6.3	6.9	6.9	8.0
Foreign material	5.2	4.0	5.7	5.9	5.7	6.0	4.0
Kernel moisture	8.9	7.3	7.3	6.0	6.0	5.1	4.6
Average:							
Sound mature kernels	59.4	59.5	60.6	60.6	60.8	59.5	58.5
Damaged kernels	0	.5	1.2	.8	1.0	.8	1.5
Other kernels	7.2	6.0	6.8	6.8	6.8	7.6	8.0
Foreign material	7.2	5.5	6.2	6.6	6.2	6.6	6.5
Kernel moisture	11.2	9.2	7.2	6.0	6.0	5.2	4.4

--Continued

Table 16.--Change in grade factors of 1953-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1954	March 1954	May 1954	July 1954	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners--Continued							
E. Wood, unmatched lumber (6-ton capacity):							
1. Wood siding, wood floor:							
Bin No. 19:							
Sound mature kernels	66.0	66.0	66.4	64.0	64.2	64.8	62.0
Damaged kernels	1.8	1.0	2.8	4.2	2.6	3.2	4.0
Other kernels	4.2	3.0	3.1	3.8	5.2	4.2	6.0
Foreign material	5.6	4.0	4.6	5.8	5.2	4.6	7.0
Kernel moisture	8.5	7.2	8.1	5.5	6.0	5.2	4.1
F. Wood, slatted sides, wood floor:							
1. 2-ton capacity:							
Bin No. 23:							
Sound mature kernels	68.0	67.0	65.4	64.4	66.2	64.7	66.0
Damaged kernels	0	0	.1	.4	.4	.6	0
Other kernels	4.0	4.0	5.1	5.9	4.6	5.6	6.0
Foreign material	3.0	5.0	2.7	2.0	3.0	2.1	2.0
Kernel moisture	14.0	12.1	7.0	5.6	4.4	5.5	4.4
Bin No. 26:							
Sound mature kernels	59.5	59.0	59.4	57.8	57.0	59.4	60.0
Damaged kernels	3.3	2.0	2.0	2.4	1.6	2.4	0
Other kernels	4.8	7.0	6.8	6.4	9.0	7.6	8.0
Foreign material	3.5	3.0	3.0	2.6	3.0	2.6	4.0
Kernel moisture	12.2	10.9	9.1	5.1	3.7	5.6	4.3
Average:							
Sound mature kernels	63.8	63.0	62.4	62.2	61.6	62.0	63.0
Damaged kernels	1.6	1.0	1.0	1.4	1.0	1.5	0
Other kernels	4.4	5.5	6.0	6.2	6.8	6.6	7.0
Foreign material	3.2	4.0	2.8	2.3	3.0	2.4	3.0
Kernel moisture	13.1	11.5	8.0	5.4	4.0	5.6	4.4
2. 5-ton capacity:							
Bin No. 25:							
Sound mature kernels	64.2	61.0	66.6	69.4	69.0	67.9	60.0
Damaged kernels	0	1.0	1.3	.7	1.3	.7	1.0
Other kernels	5.1	5.0	4.0	2.9	2.6	3.7	8.0
Foreign material	5.4	5.0	4.1	3.7	4.0	6.0	6.0
Kernel moisture	11.2	9.4	7.2	6.1	4.9	4.7	4.6
Bin No. 28:							
Sound mature kernels	58.0	56.0	53.3	55.4	54.3	55.7	54.0
Damaged kernels	0	0	.9	.7	1.4	1.7	1.0
Other kernels	8.8	10.0	12.1	10.9	11.9	11.0	11.0
Foreign material	5.5	4.0	4.7	5.3	3.7	4.4	6.0
Kernel moisture	13.0	12.3	7.3	6.0	5.9	5.2	4.4
Average:							
Sound mature kernels	61.1	58.5	60.0	62.4	61.6	61.8	57.0
Damaged kernels	0	.5	1.1	.7	1.4	1.2	1.0
Other kernels	6.9	7.5	8.1	6.9	7.2	7.4	9.5
Foreign material	5.4	4.5	4.4	4.5	3.8	5.2	6.0
Kernel moisture	12.1	10.8	7.2	6.0	5.4	5.0	4.5

--Continued

Table 16.--Change in grade factors of 1953-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1954	March 1954	May 1954	July 1954	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners--Continued							
G. Steel tank (12-ton capacity):							
1. Solid metal floor, standard exhaust vent (tight):							
Bin No. 30:							
Sound mature kernels	57.4	59.0	60.5	60.2	62.3	59.3	59.0
Damaged kernels	1.8	2.0	3.3	2.8	1.8	2.3	3.0
Other kernels	8.4	7.0	5.8	7.3	6.5	7.8	7.0
Foreign material	6.5	6.0	3.8	4.0	4.0	3.0	6.0
Kernel moisture	14.0	13.8	6.2	4.9	4.7	5.3	4.6
Southeast Spanish:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 1:							
Sound mature kernels	75.3	75.3	74.5	71.8	73.2	72.8	73.0
Damaged kernels	1.3	1.3	1.0	1.3	2.2	1.3	1.0
Other kernels	2.7	2.7	3.2	4.7	3.8	3.3	5.0
Foreign material	5.0	5.0	8.7	3.2	5.0	4.8	5.0
Kernel moisture	8.3	8.3	6.5	5.8	6.0	7.0	4.6
Bin No. 2:							
Sound mature kernels	73.4	73.4	74.0	70.5	72.5	70.5	69.0
Damaged kernels	2.6	2.6	1.3	3.3	3.0	3.5	3.0
Other kernels	3.4	3.4	2.7	4.3	3.8	4.0	7.0
Foreign material	3.3	3.3	5.8	2.5	4.3	4.3	3.0
Kernel moisture	8.6	8.6	6.8	6.0	5.7	7.0	4.6
Bin No. 3:							
Sound mature kernels	73.4	73.4	73.0	69.5	72.0	71.8	70.0
Damaged kernels	1.7	1.7	2.0	1.7	2.5	2.2	2.0
Other kernels	3.9	3.9	3.5	6.7	4.2	4.0	6.0
Foreign material	3.0	3.0	4.0	2.0	3.5	4.0	4.0
Kernel moisture	7.0	7.0	6.8	6.0	6.0	7.0	4.6
Average:							
Sound mature kernels	74.0	74.0	73.8	70.9	72.6	71.7	70.7
Damaged kernels	1.9	1.9	1.4	2.1	2.6	2.3	2.0
Other kernels	3.3	3.3	3.1	5.2	3.9	3.8	6.0
Foreign material	3.8	3.8	6.2	2.6	4.3	4.4	4.0
Kernel moisture	8.1	8.1	6.7	5.9	5.9	7.0	4.6
Southwest Spanish:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 1:							
Sound mature kernels	67.8	69.0	65.3	65.8	65.5	65.7	71.0
Damaged kernels	.8	1.0	1.7	2.2	1.7	1.3	1.0
Other kernels	4.0	5.0	5.7	5.3	5.2	5.5	4.0
Foreign material	10.4	13.0	22.5	25.7	31.3	24.2	5.0
Kernel moisture	10.2	9.2	5.3	4.4	5.4	4.0	4.0

--Continued

Table 16.--Change in grade factors of 1953-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1954	March 1954	May 1954	July 1954	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southwest Spanish--Continued							
Bin No. 4:							
Sound mature kernels	71.3	74.0	72.7	72.3	72.7	72.0	73.0
Damaged kernels	2.0	1.0	1.5	1.5	1.2	2.0	2.0
Other kernels	3.0	3.0	2.5	3.3	2.3	3.2	3.0
Foreign material	10.8	10.0	18.7	19.5	27.2	23.0	4.0
Kernel moisture	6.3	5.9	5.2	4.3	4.9	3.9	4.3
Average:							
Sound mature kernels	69.6	71.5	69.0	69.1	69.1	68.9	72.0
Damaged kernels	1.4	1.0	1.6	1.9	1.5	1.7	1.5
Other kernels	3.5	4.0	4.1	4.3	3.8	4.4	3.5
Foreign material	10.6	11.5	20.6	22.6	29.3	23.6	4.5
Kernel moisture	8.3	7.5	5.2	4.3	5.1	4.0	4.1
2. Perforated metal floor, humidity controlled installation:							
Bin No. 5:							
Sound mature kernels	73.0	77.0	76.0	75.7	75.8	74.8	75.0
Damaged kernels	--	1.0	1.0	1.3	1.0	1.3	2.0
Other kernels	--	1.0	1.0	2.3	1.3	2.0	2.0
Foreign material	--	4.0	3.0	3.0	3.0	2.8	7.0
Kernel moisture	--	7.1	5.9	4.1	5.3	3.8	3.7
3. Perforated metal floor, and fan (drying and humidity control):							
Bin No. 6:							
Sound mature kernels	74.6	76.0	76.0	74.8	74.8	75.0	75.0
Damaged kernels	--	1.0	1.0	1.2	1.3	1.3	1.0
Other kernels	--	1.0	1.0	2.7	2.0	2.3	2.0
Foreign material	--	5.0	3.3	4.5	9.0	5.7	6.0
Kernel moisture	--	6.6	5.6	4.0	5.3	4.3	4.0
Virginia type:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin A:							
Sound mature kernels	--	62.0	66.3	64.7	65.3	66.3	62.0
Damaged kernels	--	4.0	1.0	2.7	1.2	1.8	3.0
Other kernels	--	4.0	3.7	2.7	3.8	2.3	3.0
Foreign material	--	1.0	4.7	3.5	2.0	4.3	2.0
Kernel moisture	--	8.1	10.2	6.5	8.6	7.1	5.7
Fancy size	--	76.0	72.5	65.8	71.2	72.7	80.0
Extra large kernels	--	35.0	40.0	35.3	34.7	37.0	33.0
Bin C:							
Sound mature kernels	--	62.0	64.0	64.7	63.7	63.5	62.8
Damaged kernels	--	3.0	2.0	2.3	1.5	2.0	2.2
Other kernels	--	2.0	2.7	2.3	2.3	2.2	2.8
Foreign material	--	4.0	6.0	6.8	6.0	7.3	6.8
Kernel moisture	--	8.1	9.3	6.3	7.8	6.5	6.4
Fancy size	--	86.0	70.2	67.3	72.3	75.0	71.3
Extra large kernels	--	32.0	34.3	30.7	33.0	32.3	29.0

--Continued

Table 16.--Change in grade factors of 1953-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	January 1954	March 1954	May 1954	July 1954	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Virginia type--Continued							
Bin D:							
Sound mature kernels	--	64.0	64.0	64.5	63.8	64.5	61.8
Damaged kernels	--	2.0	2.2	2.3	1.8	1.8	3.0
Other kernels	--	3.0	2.7	2.3	2.8	2.1	3.3
Foreign material	--	3.0	5.3	4.8	4.8	6.0	6.2
Kernel moisture	--	8.1	9.4	6.1	8.4	6.7	6.4
Fancy size	--	78.0	76.2	70.3	71.7	76.3	73.0
Extra large kernels	--	34.0	36.0	32.7	33.5	33.2	34.2
Average:							
Sound mature kernels	--	62.7	64.8	64.6	64.3	64.8	62.5
Damaged kernels	--	3.0	1.7	2.4	1.5	1.9	2.7
Other kernels	--	3.0	3.0	2.4	3.0	2.2	3.0
Foreign material	--	2.7	5.3	5.0	4.3	5.9	4.0
Kernel moisture	--	8.1	9.6	6.3	8.3	6.7	6.2
Fancy size	--	79.7	73.0	67.8	71.7	74.7	74.8
Extra large kernels	--	33.7	36.8	32.9	33.7	34.2	33.2

Table 17.--Change in grade factors of 1954-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	December 1954 or January 1955	February or March 1955	April or May 1955	June or July 1955	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 6:							
Sound mature kernels	66.0	67.0	67.4	68.0	68.4	66.0	66.0
Damaged kernels	1.3	1.0	1.2	.6	.6	1.4	1.0
Other kernels	6.0	6.0	4.8	5.2	4.4	6.8	6.0
Foreign material	6.0	2.0	10.6	6.0	4.2	4.4	3.0
Kernel moisture	10.8	9.3	6.9	6.5	6.0	4.9	5.4
Bin No. 20:							
Sound mature kernels	65.0	65.0	64.3	65.3	65.6	63.3	63.0
Damaged kernels	2.0	2.0	4.1	1.6	3.0	2.1	1.0
Other kernels	4.0	4.0	2.9	4.9	3.4	5.3	7.0
Foreign material	6.0	6.0	6.7	8.0	6.4	7.4	6.0
Kernel moisture	10.8	10.8	5.6	5.8	4.7	4.7	5.1
Bin No. 21:							
Sound mature kernels	65.0	65.0	68.2	67.8	67.4	65.7	61.0
Damaged kernels	2.0	2.0	1.2	1.2	1.6	1.6	3.0
Other kernels	3.0	3.0	2.8	2.6	3.6	4.2	7.0
Foreign material	4.0	4.0	5.6	6.0	5.4	7.2	5.0
Kernel moisture	12.0	12.0	6.4	6.2	3.8	4.7	5.2
Average:							
Sound mature kernels	65.3	65.7	66.6	67.0	67.1	65.0	63.3
Damaged kernels	1.8	1.7	2.2	1.1	1.7	1.7	1.7
Other kernels	4.7	4.7	3.5	4.2	3.8	5.4	6.7
Foreign material	5.3	4.0	7.6	6.7	5.3	6.3	4.7
Kernel moisture	11.2	10.7	6.2	6.2	4.8	4.8	5.2
2. Perforated metal floor, mechanical ventilation (drying):							
Bin No. 1:							
Sound mature kernels	65.0	66.0	68.1	67.7	68.0	68.0	63.0
Damaged kernels	1.5	1.0	1.4	1.7	1.7	2.3	1.8
Other kernels	6.0	4.0	3.0	3.3	3.6	3.1	6.0
Foreign material	7.0	4.0	3.1	4.0	4.7	4.6	5.0
Kernel moisture	9.0	8.1	6.0	6.3	5.9	4.9	4.7
Bin No. 2:							
Sound mature kernels	67.0	65.0	67.3	66.7	68.4	65.1	63.0
Damaged kernels	1.7	2.0	2.4	1.3	1.1	2.9	2.0
Other kernels	4.0	5.0	3.7	4.9	3.7	5.1	7.0
Foreign material	3.0	1.0	2.2	2.0	1.9	2.6	2.0
Kernel moisture	11.5	10.3	5.6	6.2	6.0	5.4	5.1
Bin No. 3:							
Sound mature kernels	60.0	56.0	59.7	60.9	60.0	57.4	52.0
Damaged kernels	1.2	1.0	.7	.3	.4	1.3	2.0
Other kernels	6.0	7.0	7.0	6.0	6.6	7.9	11.0
Foreign material	6.0	6.0	3.4	10.0	10.0	7.1	8.0
Kernel moisture	13.0	10.8	5.8	6.0	6.4	5.5	5.1

--Continued

Table 17.--Change in grade factors of 1954-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	December 1954 or January 1955	February or March 1955	April or May 1955	June or July 1955	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners--Continued							
Average:							
Sound mature kernels	64.0	62.3	65.0	65.1	65.5	63.5	59.3
Damaged kernels	1.5	1.3	1.5	1.1	1.1	2.2	1.9
Other kernels	5.3	3.2	4.6	4.7	4.6	5.4	8.0
Foreign material	5.3	3.7	4.6	5.3	5.5	4.8	5.0
Kernel moisture	11.2	9.7	5.8	6.2	6.1	5.3	5.0
3. Solid metal floor, standard exhaust vent (tight):							
Bin No. 8:							
Sound mature kernels	66.0	67.0	69.1	67.1	67.4	64.7	66.0
Damaged kernels	1.0	0	.7	1.1	1.1	2.6	3.0
Other kernels	7.0	7.0	5.3	6.0	5.9	6.4	10.0
Foreign material	9.0	3.0	8.6	5.0	4.7	4.3	6.0
Kernel moisture	5.9	5.5	5.1	5.8	6.0	5.3	5.0
Bin No. 24:							
Sound mature kernels	67.0	66.0	64.9	65.4	66.9	63.0	61.0
Damaged kernels	2.1	2.0	3.6	1.7	1.6	3.9	2.0
Other kernels	5.0	7.0	4.7	6.0	5.4	6.7	10.0
Foreign material	6.0	5.0	4.9	4.0	5.3	3.4	4.0
Kernel moisture	12.6	11.3	6.1	5.7	3.9	5.0	5.4
Average:							
Sound mature kernels	66.5	66.5	67.0	66.3	67.2	63.9	63.5
Damaged kernels	1.6	1.0	2.2	1.4	1.4	3.3	2.5
Other kernels	6.0	7.0	5.0	6.0	5.7	6.6	10.0
Foreign material	7.5	4.0	6.8	4.5	5.0	3.9	5.0
Kernel moisture	9.3	8.4	5.6	5.8	5.0	5.2	5.2
C. Steel tenk (30-ton capacity):							
1. Perforated metal floor, mechanical ventilation (drying):							
Bin No. 18:							
Sound mature kernels	69.0	69.0	68.9	70.0	69.6	--	69.6
Damaged kernels	1.3	1.0	.7	.9	.9	--	.8
Other kernels	3.0	3.0	4.0	3.4	3.0	--	5.1
Foreign material	5.0	3.0	3.6	4.0	4.4	--	3.4
Kernel moisture	10.4	8.8	5.6	5.4	4.6	--	5.0
F. Wood, (5-ton capacity):							
2. Slatted sides, wood floor (8' x 10' x 7'):							
Bin No. 25:							
Sound mature kernels	69.0	69.0	68.4	68.6	69.0	66.4	67.0
Damaged kernels	1.0	1.0	.6	.6	.7	1.9	0
Other kernels	2.0	2.0	2.3	2.6	2.6	3.9	4.0
Foreign material	3.0	3.0	2.1	4.0	3.4	3.4	4.0
Kernel moisture	14.1	14.2	6.4	7.3	4.2	5.1	5.6

--Continued

Table 17.--Change in grade factors of 1954-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	December 1954 or January 1955	February or March 1955	April or May 1955	June or July 1955	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners--Continued							
Bin No. 28:							
Sound mature kernels	70.0	64.0	68.3	67.7	68.9	66.9	64.0
Damaged kernels	0	2.0	1.0	1.0	.3	1.4	1.0
Other kernels	3.0	5.0	3.1	3.4	4.1	4.1	6.0
Foreign material	4.0	2.0	3.3	4.0	3.7	3.7	2.0
Kernel moisture	12.1	11.7	6.5	7.1	4.3	5.1	5.1
Average:							
Sound mature kernels	69.5	66.5	68.4	68.2	66.8	66.8	65.5
Damaged kernels	.5	1.5	.8	.8	.5	1.6	.5
Other kernels	2.5	3.5	2.7	3.0	3.4	4.0	5.0
Foreign material	3.5	2.5	2.7	4.0	3.5	3.6	3.0
Kernel moisture	13.1	13.0	6.4	7.2	4.2	5.1	5.4
Southeast Spanish:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 1:							
Sound mature kernels	65.7	60.3	61.2	60.3	61.3	57.7	64.0
Damaged kernels	1.6	3.8	3.3	2.5	2.7	4.0	3.0
Other kernels	6.5	6.7	6.3	7.5	6.2	7.7	6.0
Foreign material	5.6	6.5	6.3	7.7	6.5	6.8	8.0
Kernel moisture	13.8	6.0	6.0	6.0	5.0	5.0	5.0
Bin No. 2:							
Sound mature kernels	66.0	61.2	59.3	62.2	56.8	57.7	61.0
Damaged kernels	1.0	2.3	2.2	1.7	1.8	3.0	2.0
Other kernels	3.0	7.5	8.8	6.7	9.7	9.0	8.0
Foreign material	6.0	5.7	4.8	4.5	4.7	6.7	9.0
Kernel moisture	11.7	6.0	5.0	5.0	5.3	5.3	5.0
Bin No. 3:							
Sound mature kernels	65.1	62.5	64.0	62.2	62.0	61.7	64.0
Damaged kernels	3.0	5.3	4.7	5.3	4.8	4.5	5.0
Other kernels	2.9	4.3	4.3	5.5	5.0	4.7	4.0
Foreign material	4.2	6.3	5.3	4.5	4.2	5.2	8.0
Kernel moisture	6.8	5.7	5.0	5.0	5.0	5.0	5.1
Average:							
Sound mature kernels	65.6	61.3	61.5	61.6	60.0	59.0	63.0
Damaged kernels	1.9	3.8	3.4	3.2	3.1	3.8	3.3
Other kernels	4.1	6.2	6.5	6.6	7.0	7.1	6.0
Foreign material	5.3	6.2	5.5	5.6	5.1	6.2	8.3
Kernel moisture	10.8	5.9	5.3	5.3	5.1	5.1	5.0

--Continued

Table 17.--Change in grade factors of 1954-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	December 1954 or January 1955	February or March 1955	April or May 1955	June or July 1955	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southwest Spanish:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 1:							
Sound mature kernels	63.3	60.0	59.1	61.4	58.0	60.4	62.0
Damaged kernels	.9	1.0	2.0	1.1	1.3	1.0	1.0
Other kernels	6.9	9.0	8.9	7.9	11.4	8.3	9.0
Foreign material	7.0	10.0	10.4	7.3	10.6	7.1	10.0
Kernel moisture	8.4	5.7	6.6	5.7	5.0	--	6.0
Bin No. 2:							
Sound mature kernels	72.0	72.0	71.3	72.1	70.3	73.0	71.0
Damaged kernels	1.0	1.0	1.4	1.0	1.0	1.0	1.0
Other kernels	3.0	2.0	2.6	2.6	4.4	3.3	3.0
Foreign material	5.0	5.0	4.7	3.1	4.3	3.9	4.0
Kernel moisture	11.0	9.2	6.6	5.5	5.2	--	6.0
Bin No. 4:							
Sound mature kernels	63.3	59.0	60.3	59.0	57.7	59.3	62.0
Damaged kernels	1.3	2.0	1.7	1.7	1.3	1.0	1.0
Other kernels	6.3	9.0	7.3	8.1	12.0	9.3	9.0
Foreign material	5.5	5.0	6.3	6.0	5.0	4.7	10.0
Kernel moisture	10.9	6.7	7.6	5.5	5.0	--	6.0
Average:							
Sound mature kernels	66.2	63.7	63.6	64.2	61.9	64.2	65.0
Damaged kernels	1.1	1.3	1.7	1.3	1.2	1.0	1.0
Other kernels	5.4	6.7	6.3	6.2	9.3	7.0	7.0
Foreign material	5.8	6.7	7.1	5.5	6.6	5.2	8.0
Kernel moisture	10.1	7.2	6.9	5.6	5.1	--	6.0
3. Perforated metal floor, and fan (drying and humidity control):							
Bin No. 6:							
Sound mature kernels	72.0	68.0	72.0	71.4	69.7	71.6	71.0
Damaged kernels	1.0	2.0	1.1	1.0	1.3	1.0	1.0
Other kernels	3.0	6.0	2.9	2.7	3.9	3.0	3.0
Foreign material	5.0	4.0	4.6	4.6	3.9	4.0	4.0
Kernel moisture	11.0	10.2	5.9	5.4	6.7	--	6.0
Virginia type:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin B:							
Sound mature kernels	64.0	68.0	65.7	65.3	65.0	55.5	58.0
Damaged kernels	1.0	0	1.7	1.0	1.0	9.2	9.0
Other kernels	5.0	3.0	4.5	5.0	4.7	5.3	6.0
Foreign material	3.0	4.0	3.7	4.0	4.2	5.5	7.0
Kernel moisture	9.0	7.9	7.9	7.7	8.2	6.6	6.9
Fancy size	67.0	78.0	63.0	60.7	58.7	60.7	72.0
Extra large kernels	26.0	30.0	27.3	25.7	26.0	22.0	23.0

--Continued

Table 17.--Change in grade factors of 1954-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite
	At purchase	When loaded in	December 1954 or January 1955	February or March 1955	April or May 1955	June or July 1955	sample when loaded out
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Virginia type--Continued							
Bin C:							
Sound mature kernels	64.0	66.0	64.5	65.2	64.7	60.5	58.0
Damaged kernels	1.0	1.0	1.3	.5	.5	4.5	6.0
Other kernels	5.0	3.0	4.8	3.7	4.5	5.8	5.0
Foreign material	3.0	2.0	5.3	6.3	6.8	6.5	5.0
Kernel moisture	9.0	8.6	8.2	7.5	7.6	7.3	7.1
Fancy size	67.0	70.0	63.7	56.2	52.2	53.3	48.0
Extra large kernels	26.0	29.0	25.2	25.0	24.3	21.7	18.0
Bin D:							
Sound mature kernels	64.0	62.0	63.7	64.7	63.0	55.3	55.0
Damaged kernels	2.0	2.0	2.3	1.7	2.2	9.2	11.0
Other kernels	3.0	5.0	3.7	3.3	3.5	5.0	4.0
Foreign material	4.0	3.0	5.5	5.0	5.2	5.7	5.0
Kernel moisture	11.0	9.7	8.6	7.6	7.7	7.0	6.7
Fancy size	67.0	78.0	61.3	70.3	51.7	50.3	64.0
Extra large kernels	31.0	29.0	28.3	27.3	23.0	21.0	22.0
Average:							
Sound mature kernels	64.0	65.3	64.6	65.1	64.2	57.1	57.0
Damaged kernels	1.3	1.5	1.8	1.1	1.2	7.6	8.7
Other kernels	4.3	3.7	4.3	4.0	4.2	5.4	3.0
Foreign material	3.3	3.0	4.8	5.1	5.4	5.9	5.7
Kernel moisture	9.7	8.7	8.2	7.6	7.8	7.0	6.9
Fancy size	67.0	75.3	62.7	62.4	54.2	54.8	61.3
Extra large kernels	27.7	29.3	26.9	26.0	24.4	21.6	21.0

Table 18.--Change in grade factors of 1955-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	November or December 1955	January or February 1956	March or April 1956	May or June 1956	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 21:							
Sound mature kernels	72.2	72.2	69.6	--	69.4	--	68.5
Damaged kernels	.5	.5	1.0	--	1.4	--	.5
Other kernels	2.3	2.3	4.6	--	5.0	--	6.5
Foreign material	6.9	6.9	3.2	--	3.0	--	3.5
Kernel moisture	12.3	12.3	5.0	--	4.3	--	6.0
Southeast Spanish:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 3:							
Sound mature kernels	70.4	70.4	72.8	72.2	--	71.2	71.2
Damaged kernels	2.3	2.3	2.0	1.8	--	3.0	3.0
Other kernels	5.1	5.1	3.8	3.2	--	4.2	4.2
Foreign material	6.1	6.1	5.8	4.8	--	4.7	4.7
Kernel moisture	6.4	6.4	6.0	6.0	--	5.8	5.8
Bin No. 5:							
Sound mature kernels	73.5	73.5	75.3	74.3	--	71.5	71.5
Damaged kernels	2.5	2.5	1.3	1.8	--	3.2	3.2
Other kernels	2.5	2.5	2.3	2.5	--	3.5	3.5
Foreign material	7.5	7.5	8.5	5.0	--	8.5	8.5
Kernel moisture	12.3	12.3	7.0	6.5	--	6.0	6.0
Average:							
Sound mature kernels	72.0	72.0	74.1	73.3	--	71.4	71.4
Damaged kernels	2.4	2.4	1.7	1.8	--	3.1	3.1
Other kernels	3.8	3.8	3.1	3.3	--	3.9	3.9
Foreign material	6.8	6.8	7.2	4.9	--	6.6	6.6
Kernel moisture	9.3	9.3	6.5	6.3	--	5.9	5.9
Southwest Spanish:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin No. 1:							
Sound mature kernels	66.5	66.0	64.0	64.7	61.7	64.1	64.2
Damaged kernels	.5	2.0	1.0	1.4	1.3	1.0	1.0
Other kernels	7.0	6.0	7.7	7.3	7.3	7.7	7.7
Foreign material	6.0	7.0	6.7	7.1	6.0	8.9	8.9
Kernel moisture	6.0	--	--	--	5.2	3.9	--
Bin No. 2:							
Sound mature kernels	66.9	66.0	65.4	64.2	64.9	63.5	65.0
Damaged kernels	1.1	1.0	1.1	1.0	2.0	1.1	1.1
Other kernels	6.0	5.0	5.9	6.2	6.3	6.0	5.6
Foreign material	4.6	4.0	5.7	5.3	6.5	5.8	4.5
Kernel moisture	8.1	--	--	4.9	5.2	4.6	--

--Continued

Table 18.--Change in grade factors of 1955-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions				Composite sample when loaded out
	At purchase	When loaded in	November or December 1955	January or February 1956	March or April 1956	May or June 1956	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southwest Spanish--Continued							
Bin No. 4:							
Sound mature kernels	66.9	65.0	64.0	66.1	65.7	65.3	65.3
Damaged kernels	1.1	1.0	1.1	1.4	1.6	1.4	1.4
Other kernels	6.0	6.0	6.1	5.3	5.3	6.3	6.3
Foreign material	4.5	5.0	4.6	4.3	4.7	7.7	7.7
Kernel moisture	8.1	--	--	--	4.8	3.9	3.9
Average:							
Sound mature kernels	66.8	65.7	64.5	65.0	64.1	64.3	64.8
Damaged kernels	.9	1.3	1.1	1.3	1.6	1.2	1.2
Other kernels	6.3	5.7	6.6	6.3	6.3	6.7	6.5
Foreign material	5.0	5.3	5.7	5.6	5.7	7.5	7.0
Kernel moisture	7.4	--	--	4.9	5.1	4.1	3.9
3. Perforated metal floor, and fan (drying and humidity control):							
Bin No. 6:							
Sound mature kernels	66.0	66.0	64.6	61.7	63.9	64.6	61.6
Damaged kernels	2.0	1.0	1.4	1.4	1.6	1.0	1.0
Other kernels	6.0	7.0	6.9	6.7	6.7	6.3	7.4
Foreign material	10.0	8.0	9.3	9.7	9.6	9.6	8.6
Kernel moisture	9.0	--	--	--	5.8	--	--
Virginia type:							
A. Steel tanks (6-ton capacity):							
1. Perforated metal floor, tube and roof ventilation (cooling):							
Bin B:							
Sound mature kernels	63.0	63.0	--	63.2	63.5	63.3	63.3
Damaged kernels	0	0	--	.5	.3	.2	.2
Other kernels	7.0	8.0	--	6.3	6.5	6.8	6.8
Foreign material	4.0	9.0	--	7.7	5.7	7.3	7.3
Kernel moisture	7.0	8.4	--	7.6	6.2	7.2	7.2
Fancy size	38.0	48.0	--	46.3	48.7	38.8	38.8
Extra large kernels	23.0	20.0	--	18.5	19.7	16.7	16.7
Bin D:							
Sound mature kernels	68.0	64.0	--	64.0	63.3	63.2	63.2
Damaged kernels	0	1.0	--	1.2	1.5	1.5	1.5
Other kernels	4.0	5.0	--	6.5	6.3	6.5	6.5
Foreign material	3.0	2.0	--	18.3	9.0	12.5	12.5
Kernel moisture	16.0	16.0	--	9.4	6.9	7.2	7.2
Fancy size	58.8	59.0	--	56.0	57.5	50.3	50.3
Extra large kernels	24.0	25.0	--	14.0	12.5	14.0	14.0
Average:							
Sound mature kernels	65.5	63.5	--	63.6	63.4	63.3	63.3
Damaged kernels	0	.5	--	.9	.9	.9	.9
Other kernels	5.5	6.5	--	6.4	6.4	6.7	6.7
Foreign material	3.5	5.5	--	13.0	7.4	9.9	9.9
Kernel moisture	11.5	12.2	--	8.5	6.6	7.2	7.2
Fancy size	48.4	53.5	--	51.2	53.1	44.6	44.6
Extra large kernels	23.5	22.5	--	16.3	16.1	15.4	15.4

Table 19.--Change in grade factors of 1956-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions					Composite sample when loaded out
	At purchase	When loaded in	November 1956	December 1956	January or February 1957	March or April 1957	May or June 1957	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners: 1/								
A. Steel tanks (6-ton capacity):								
1. Perforated metal floor, tube and roof ventilation (cooling):								
Bin No. 20:								
Sound mature kernels	66.0	71.0	--	--	--	--	70.8	70.0
Damaged kernels	1.0	0	--	--	--	--	0	0
Other kernels	10.0	5.0	--	--	--	--	5.2	5.0
Foreign material	5.0	5.0	--	--	--	--	4.4	3.0
Kernel moisture	7.0	5.8	--	--	--	--	5.4	5.7
3. Solid metal floor, standard exhaust vent (tight):								
Bin No. 8:								
Sound mature kernels	71.0	72.0	--	--	--	--	71.8	69.0
Damaged kernels	0	0	--	--	--	--	.6	1.0
Other kernels	4.0	3.0	--	--	--	--	3.0	5.0
Foreign material	4.0	2.0	--	--	--	--	1.4	1.0
Kernel moisture	11.0	9.9	--	--	--	--	5.9	5.2
Bin No. 24:								
Sound mature kernels	69.0	73.0	--	--	--	--	71.2	71.0
Damaged kernels	0	0	--	--	--	--	.4	0
Other kernels	7.0	3.0	--	--	--	--	3.8	3.0
Foreign material	3.0	1.0	--	--	--	--	1.0	2.0
Kernel moisture	8.0	6.1	--	--	--	--	6.0	5.3
Average:								
Sound mature kernels	70.0	72.5	--	--	--	--	71.5	70.0
Damaged kernels	0	0	--	--	--	--	.5	.5
Other kernels	5.5	3.0	--	--	--	--	3.4	4.0
Foreign material	3.5	1.5	--	--	--	--	1.2	1.5
Kernel moisture	9.5	8.0	--	--	--	--	5.9	5.2
D. Wood crib (6-ton capacity):								
2. Slatted sides, wood floor:								
Bin No. 15:								
Sound mature kernels	70.0	74.0	--	--	--	--	72.8	74.0
Damaged kernels	1.0	0	--	--	--	--	0	0
Other kernels	6.0	2.0	--	--	--	--	3.4	3.0
Foreign material	2.0	1.0	--	--	--	--	.6	0
Kernel moisture	6.0	6.8	--	--	--	--	6.2	6.1
E. Wood, unmatched lumber (6-ton capacity):								
1. Wood siding, wood floor								
Bin No. 19:								
Sound mature kernels	66.0	73.0	--	--	--	--	70.8	72.0
Damaged kernels	1.0	0	--	--	--	--	.6	1.0
Other kernels	9.0	4.0	--	--	--	--	4.2	4.0
Foreign material	6.0	3.0	--	--	--	--	3.6	2.0
Kernel moisture	7.0	5.8	--	--	--	--	6.4	5.9

See footnotes at end of table.

--Continued

Table 19.--Change in grade factors of 1956-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions					Composite sample when loaded out
	At purchase	When loaded in	November 1956	December 1956	January or February 1957	March or April 1957	May or June 1957	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners--Continued								
F. Wood crib (2-ton capacity):								
1. Slatted sides, wood floor:								
Bin No. 23:								
Sound mature kernels ..	68.0	71.0	--	--	--	--	72.2	73.0
Damaged kernels	0	0	--	--	--	--	.4	0
Other kernels	9.0	5.0	--	--	--	--	3.8	3.0
Foreign material	2.0	1.0	--	--	--	--	1.4	1.0
Kernel moisture	7.0	6.0	--	--	--	--	6.2	6.1
Southeast Spanish: 2/								
A. Steel tanks (6-ton capacity):								
1. Perforated metal floor, tube and roof ventilation (cooling):								
Bin No. 2:								
Sound mature kernels ..	74.0	74.0	76.5	--	73.5	--	74.5	75.0
Damaged kernels	.8	.8	1.0	--	1.8	--	2.0	1.0
Other kernels	5.0	5.0	1.7	--	3.7	--	2.7	3.0
Foreign material	2.0	2.0	4.5	--	1.8	--	3.0	3.0
Kernel moisture	6.8	6.8	5.2	--	6.0	--	5.8	6.0
Bin No. 4:								
Sound mature kernels ..	71.8	71.8	71.5	--	72.8	--	71.7	68.0
Damaged kernels	1.2	1.2	1.3	--	1.0	--	1.7	3.0
Other kernels	5.8	5.8	3.3	--	3.8	--	3.3	5.0
Foreign material	7.2	7.2	5.4	--	6.7	--	5.5	6.0
Kernel moisture	7.0	7.0	5.7	--	6.0	--	6.2	5.0
Bin No. 5:								
Sound mature kernels ..	70.7	70.7	67.8	--	69.2	--	66.8	67.0
Damaged kernels	3.5	3.5	4.3	--	4.5	--	5.7	5.0
Other kernels	4.4	4.4	4.0	--	3.3	--	3.7	4.0
Foreign material	2.0	2.0	1.8	--	2.0	--	2.5	2.0
Kernel moisture	14.1	14.1	6.5	--	7.8	--	6.7	6.0
Average:								
Sound mature kernels ..	72.2	72.2	71.9	--	71.8	--	71.0	70.0
Damaged kernels	1.8	1.8	2.2	--	2.4	--	3.1	3.0
Other kernels	5.1	5.1	3.0	--	3.6	--	3.2	4.0
Foreign material	3.7	3.7	3.9	--	3.5	--	3.7	3.7
Kernel moisture	9.3	9.3	5.8	--	6.6	--	6.2	5.7
Southwest Spanish:								
A. Steel tanks (6-ton capacity):								
1. Perforated metal floor, tube and roof ventilation (cooling):								
Bin No. 1:								
Sound mature kernels ..	61.0	61.0	--	65.0	--	64.4	65.2	66.0
Damaged kernels	0	0	--	.8	--	1.2	.1	1.0
Other kernels	12.5	12.5	--	5.8	--	6.4	5.8	5.0
Foreign material	4.0	4.0	--	3.2	--	4.4	3.8	4.0
Kernel moisture	10.0	10.0	--	6.7	--	6.5	7.4	7.6

See footnotes at end of table.

--Continued

Table 19.--Change in grade factors of 1956-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions					Composite sample when loaded out
	At purchase	When loaded in	November 1956	December 1956	January or February 1957	March or April 1957	May or June 1957	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southwest Spanish--Continued								
Bin No. 2:								
Sound mature kernels ..	61.4	61.4	--	64.3	--	63.3	61.4	60.0
Damaged kernels	.2	.2	--	.3	--	1.3	2.9	3.0
Other kernels	10.5	10.5	--	5.6	--	6.0	5.9	6.0
Foreign material	6.9	6.9	--	10.1	--	11.9	10.1	12.0
Kernel moisture	9.2	9.2	--	6.4	--	6.8	6.5	6.3
Average:								
Sound mature kernels ..	61.2	61.2	--	64.7	--	63.9	63.3	63.0
Damaged kernels	.1	.1	--	.6	--	1.3	1.5	2.0
Other kernels	11.5	11.5	--	5.7	--	6.2	5.9	5.5
Foreign material	5.5	5.5	--	6.7	--	8.2	7.0	8.0
Kernel moisture	9.6	9.6	--	6.6	--	6.7	7.0	6.9
2. Perforated metal floor, humidity controlled installation:								
Bin No. 5:								
Sound mature kernels ..	63.9	63.9	--	66.6	--	65.0	63.9	63.0
Damaged kernels	1.0	1.0	--	1.1	--	1.9	1.4	1.0
Other kernels	7.6	7.6	--	4.1	--	4.9	4.6	5.0
Foreign material	7.1	7.1	--	6.7	--	6.6	6.6	5.0
Kernel moisture	11.2	11.2	--	9.3	--	7.7	7.9	7.9
3. Perforated metal floor and fan (drying and humidity control):								
Bin No. 6:								
Sound mature kernels ..	64.7	64.7	--	65.9	--	66.1	66.6	67.0
Damaged kernels	1.0	1.0	--	.7	--	1.4	.1	1.0
Other kernels	8.1	8.1	--	4.3	--	4.4	3.0	4.0
Foreign material	7.0	7.0	--	6.3	--	4.7	6.6	4.0
Kernel moisture	11.2	11.2	--	7.7	--	7.5	8.2	8.3
Virginia type: 2/								
A. Steel tanks (6-ton capacity):								
1. Perforated metal floor, tube and roof ventilation (cooling):								
Bin B:								
Sound mature kernels ..	72.0	71.8	71.5	70.8	71.2	70.7	73.0	71.0
Damaged kernels	1.0	1.0	1.3	1.7	1.5	1.5	1.8	3.0
Other kernels	1.0	1.0	1.0	1.2	1.0	2.0	1.0	1.0
Foreign material	1.0	1.2	1.3	1.0	1.5	1.7	3.0	1.0
Kernel moisture	12.0	12.1	12.0	13.4	10.0	8.0	8.0	7.0
Fancy size	81.0	81.2	82.8	76.8	80.0	75.5	65.0	80.0
Extra large kernels ...	47.0	41.4	42.2	39.3	41.8	38.7	40.3	42.0

See footnotes at end of table.

--Continued

Table 19.--Change in grade factors of 1956-crop farmers stock peanuts during bulk storage, by type of peanuts and by bins--Continued

Peanut type and grade factor, and kind and size of bin	Composite sample		Average of samples from all positions					Composite sample when loaded out
	At purchase	When loaded in	November 1956	December 1956	January or February 1957	March or April 1957	May or June 1957	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Virginia type--Continued								
Bin D:								
Sound mature kernels ..	74.0	71.8	71.5	70.8	70.2	70.3	74.0	73.0
Damaged kernels	1.0	1.0	1.0	1.7	2.0	1.3	1.0	2.0
Other kernels	1.0	1.0	1.2	1.2	1.0	2.0	1.0	1.0
Foreign material	1.0	1.2	1.1	1.0	1.2	1.8	2.3	2.0
Kernel moisture	8.0	8.0	8.0	13.3	8.0	7.0	7.0	7.0
Fancy size	76.0	78.0	77.8	76.8	78.8	75.5	70.3	69.0
Extra large kernels ...	45.0	40.8	40.3	39.3	39.8	38.7	42.0	42.0
Average:								
Sound mature kernels ..	73.0	71.8	71.5	70.8	70.7	70.5	73.0	72.0
Damaged kernels	1.0	1.0	1.2	1.7	1.8	1.4	1.4	2.5
Other kernels	1.0	1.0	1.1	1.2	1.0	2.0	1.0	1.0
Foreign material	1.0	1.2	1.2	1.0	1.4	1.8	2.7	1.5
Kernel moisture	10.0	10.0	10.0	13.4	9.0	7.5	7.5	7.0
Fancy size	78.5	79.6	80.3	76.8	79.4	75.5	67.7	74.5
Extra large kernels ...	46.0	41.1	41.3	39.3	40.8	38.7	41.2	42.0

1/ All bins on a schedule of sampling on an in-and-out basis only.
2/ Excluding data for bins on a schedule of sampling on an in-and-out basis only.

Table 20.--Southeast Runners, 1952 crop: Change in grade factors of farmers stock peanuts during bulk storage in 4 bins, fall 1952-June 1957 1/

Storage season and time of sampling	Sound mature kernels				Damaged kernels				Other kernels				Foreign material				Kernel moisture			
	Bin 4	Bin 11	Bin 12	Bin 17	Bin 4	Bin 11	Bin 12	Bin 17	Bin 4	Bin 11	Bin 12	Bin 17	Bin 4	Bin 11	Bin 12	Bin 17	Bin 4	Bin 11	Bin 12	Bin 17
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
1952-53:																				
Composite sample at purchase	69.4	62.3	65.6	66.4	0	0	0.6	0	3.0	8.5	5.9	5.6	4.6	7.9	3.4	3.8	9.0	10.9	6.0	6.0
First sample from bin	66.7	59.0	65.7	65.6	.7	.9	.1	.4	6.1	8.3	6.3	5.9	4.0	7.6	5.7	2.3	6.8	9.6	6.2	6.6
Winter sample	65.3	56.0	64.4	65.7	1.3	2.4	.7	.9	6.1	10.1	6.1	5.7	4.0	7.3	5.6	2.8	7.2	7.7	7.3	6.7
Spring sample	63.7	58.1	64.3	65.1	1.3	2.4	1.0	1.4	7.9	9.7	6.0	6.3	3.3	7.4	4.7	2.7	5.1	5.3	6.4	5.5
Summer sample	65.0	59.6	63.4	65.4	1.1	1.1	1.1	.9	6.6	9.4	7.0	5.9	3.4	6.4	6.0	3.4	4.9	5.3	5.2	5.1
1953-54:																				
Fall sample	63.1	59.4	65.0	62.1	2.3	1.0	.6	3.0	8.3	9.3	6.6	6.9	5.6	5.6	4.7	3.9	5.1	5.2	5.3	5.0
Winter sample	63.6	61.2	65.4	63.4	2.2	1.8	1.1	3.9	8.0	8.2	5.1	5.3	5.2	8.8	4.1	4.0	6.3	5.6	6.9	7.0
Spring sample	63.2	61.8	63.8	62.1	3.4	.6	1.8	4.1	7.2	8.4	6.4	6.4	4.0	7.0	4.8	3.6	5.0	4.7	5.4	4.4
Summer sample	63.0	59.8	63.0	61.4	2.2	2.0	1.8	4.6	7.6	9.2	7.4	6.9	3.4	6.2	5.6	3.7	4.5	5.0	4.9	4.1
1954-55:																				
Fall sample	64.8	60.2	64.8	62.3	1.6	1.2	1.8	4.0	7.2	9.6	5.6	5.7	5.0	8.6	4.2	3.1	4.2	4.2	4.7	4.5
Winter sample	64.2	62.8	65.8	64.0	3.0	1.2	1.2	2.2	6.8	7.4	5.4	5.8	4.2	7.4	5.0	3.6	6.0	5.2	5.1	5.4
Spring sample	65.2	61.2	64.8	63.6	5.0	1.8	1.0	3.2	4.2	8.0	5.4	5.6	5.2	10.4	3.6	4.2	4.4	4.6	4.8	4.0
Summer sample	62.2	57.6	65.0	62.2	4.0	2.2	1.2	3.4	6.8	9.6	5.8	5.6	4.8	14.0	6.4	3.8	4.9	4.8	4.6	4.9
1955-56:																				
Fall sample	59.0	56.0	65.0	61.0	4.8	2.4	1.4	3.2	9.0	11.0	6.0	7.0	4.0	9.0	6.0	4.0	5.0	5.0	5.0	4.6
Winter sample	58.6	59.4	62.4	61.8	4.6	1.0	1.6	2.4	7.6	9.2	7.8	7.2	5.0	6.8	5.0	3.8	5.4	5.6	5.8	5.7
Spring sample	59.6	56.6	63.2	61.2	6.2	2.0	1.0	2.8	6.8	10.2	7.6	7.4	5.6	11.2	5.0	3.2	6.0	5.7	5.6	6.2
Summer sample	60.8	57.0	65.2	61.6	5.2	2.6	1.2	3.0	7.0	10.0	6.2	7.0	4.8	9.2	6.4	4.8	5.1	5.4	5.2	4.9
1956-57:																				
Winter sample	57.2	58.4	63.8	64.6	8.0	2.0	1.8	3.2	7.6	8.8	6.0	6.4	5.2	9.0	5.4	3.4	6.4	6.7	6.8	7.4
Spring sample	58.2	58.0	63.2	61.6	7.0	2.4	1.6	2.4	8.2	9.8	6.6	8.0	4.6	7.6	5.4	3.6	5.0	5.4	5.8	5.6
Composite sample when loaded out	53.0	61.0	60.0	59.0	7.0	2.0	5.0	3.0	12.0	8.0	6.0	8.0	3.0	11.0	4.0	2.0	5.2	4.8	5.1	5.2

1/ These peanuts were held in storage approximately 56 months.

Bin No. 4, 6-ton steel bin, perforated floor, tube and roof ventilation.
Bin No. 11, 6-ton steel bin, solid floor, standard exhaust vent.
Bin No. 12, 6-ton wooden bin, tight sides.
Bin No. 17, 12-ton steel bin, perforated floor, tube and roof ventilation.

Table 21.--Southeast Runners, 1953 crop: Change in grade factors of farmers stock peanuts during bulk storage in 4 bins, fall 1953-June 1957 1/

Storage season and time of sampling	Sound mature kernels				Damaged kernels				Other kernels				Foreign material				Kernel moisture			
	Bin 7	Bin 9	Bin 22	Bin 27	Bin 7	Bin 9	Bin 22	Bin 27	Bin 7	Bin 9	Bin 22	Bin 27	Bin 7	Bin 9	Bin 22	Bin 27	Bin 7	Bin 9	Bin 22	Bin 27
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
1953-54:																				
Composite sample at purchase	70.4	69.0	61.0	68.3	0.4	0	5.6	0	2.6	2.9	5.0	3.4	4.0	3.0	3.2	6.3	11.1	9.8	9.0	8.6
First sample from bin	71.0	63.9	63.9	67.4	.6	.7	2.9	.3	2.0	6.3	4.9	3.4	4.0	4.7	6.0	4.9	6.2	6.3	6.3	6.6
Winter sample	70.7	65.6	63.9	65.9	1.0	1.4	4.9	1.4	2.3	4.4	2.9	3.1	3.0	4.3	4.3	4.6	6.0	6.4	7.3	7.4
Spring sample	71.3	66.0	62.3	68.1	.7	.9	2.4	1.0	2.3	5.0	5.7	3.0	3.7	4.1	7.3	4.1	4.5	4.9	5.1	5.0
Summer sample	69.4	65.6	59.1	65.6	1.9	1.6	6.6	2.3	2.9	5.4	6.0	4.4	3.9	5.0	5.7	4.9	4.2	4.8	4.1	5.8
1954-55:																				
Fall sample	69.1	65.0	60.4	65.6	1.4	1.6	5.6	3.6	3.3	5.4	5.9	2.9	3.1	3.3	3.0	3.9	4.2	4.5	4.5	4.8
Winter sample	69.7	65.7	60.0	65.2	1.6	1.6	5.6	1.6	2.6	4.9	5.6	4.8	3.6	2.9	3.4	4.0	5.5	5.1	5.2	4.9
Spring sample	70.4	65.4	61.7	66.4	1.4	2.0	6.0	2.4	2.6	4.7	4.1	3.6	3.7	4.1	4.6	3.3	4.5	4.5	4.5	4.7
Summer sample	69.4	64.1	61.6	66.4	2.3	1.9	4.3	1.9	2.4	5.6	5.0	4.0	3.6	4.0	5.3	5.6	4.7	4.5	4.5	4.9
1955-56:																				
Fall sample	68.0	61.0	60.0	64.0	1.9	2.0	5.9	2.1	4.0	9.0	6.0	5.0	4.0	4.0	5.6	5.0	4.8	4.9	4.6	4.8
Winter sample	69.1	63.6	59.0	64.4	1.6	1.4	6.7	1.8	4.0	7.1	5.6	5.0	3.1	4.0	4.7	4.2	5.5	5.2	5.5	5.2
Spring sample	68.9	64.0	58.6	64.1	1.6	1.8	7.0	2.3	3.3	5.6	5.0	4.9	3.4	5.8	4.7	3.7	6.6	5.8	6.3	6.2
Summer sample	67.6	63.8	57.3	63.6	2.4	1.4	6.1	2.4	4.0	6.4	6.9	5.4	3.3	3.4	8.0	5.8	5.0	5.1	4.9	5.2
1956-57:																				
Winter sample	69.6	62.2	57.7	67.4	1.4	1.8	7.4	1.2	2.7	6.8	5.6	3.0	3.0	3.2	4.4	3.8	6.6	6.7	6.9	6.9
Spring sample	67.8	61.4	54.6	65.6	2.4	2.8	10.1	1.2	3.2	6.6	5.9	4.4	3.2	3.0	2.9	3.8	5.5	5.1	5.6	5.7
Composite sample when loaded out	70.0	69.0	55.0	61.0	1.0	2.0	9.0	3.0	3.0	2.0	6.0	5.0	3.0	3.0	1.0	8.0	5.5	4.8	5.1	5.2

1/ These peanuts were held in storage approximately 45 months.

Bin No. 7, 6-ton steel bin, perforated floor, tube and roof ventilation.
Bin No. 9, 6-ton steel bin, solid floor, standard exhaust vent.
Bin No. 22, 6-ton steel bin, perforated floor, tube and roof ventilation.
Bin No. 27, 6-ton wooden bin, tight sides.

Table 22.--Southeast Runners, 1954 crop: Change in grade factors of farmers stock peanuts during bulk storage in 4 bins, fall 1954-June 1957 1/

Storage season and time of sampling	Sound mature kernels				Damaged kernels				Other kernels				Foreign material				Kernel moisture			
	Bin 5	Bin 10	Bin 13	Bin 29	Bin 5	Bin 10	Bin 13	Bin 29	Bin 5	Bin 10	Bin 13	Bin 29	Bin 5	Bin 10	Bin 13	Bin 29	Bin 5	Bin 10	Bin 13	Bin 29
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
1954-55:																				
Composite sample at purchase	69.0	67.0	64.0	69.0	0.3	1.3	3.0	1.2	6.0	5.0	6.0	3.0	7.0	3.0	5.0	3.0	7.7	9.6	11.2	12.4
First sample from bin	70.0	66.0	68.1	68.9	.9	1.4	1.3	1.4	3.9	5.1	4.0	3.4	7.0	3.7	3.6	3.7	6.2	6.0	6.9	6.1
Winter sample	69.4	66.4	66.6	69.6	1.1	.7	1.4	1.1	4.6	5.6	5.4	3.4	9.0	3.0	3.0	4.0	6.5	5.9	6.7	5.5
Spring sample	67.9	65.4	67.4	71.1	1.4	1.3	1.2	1.0	4.7	5.6	5.2	2.3	9.7	3.0	3.8	3.0	6.2	6.5	4.6	3.7
Summer sample	67.7	63.2	63.0	68.7	1.6	1.8	2.8	2.7	5.7	6.8	6.6	2.9	3.4	2.2	6.2	5.0	4.8	5.0	5.4	5.0
1955-56:																				
Fall sample	66.9	63.0	63.0	67.0	2.0	1.8	2.6	2.6	6.0	7.0	7.0	4.0	6.0	4.0	5.0	4.0	5.1	5.4	5.5	4.8
Winter sample	68.4	63.8	63.8	67.1	1.4	2.4	3.0	2.0	5.2	6.0	6.6	3.9	5.9	4.6	3.4	3.9	6.7	6.5	5.7	6.6
Spring sample	69.2	63.2	62.9	65.0	1.2	1.8	3.6	4.3	4.6	7.0	6.7	5.0	8.9	3.0	5.1	4.4	5.0	4.9	5.2	4.8
Summer sample	68.0	62.4	61.6	64.0	1.6	2.4	4.6	3.8	5.6	7.2	7.0	5.0	9.2	3.8	4.2	5.4	4.8	4.8	4.9	5.3
1956-57:																				
Winter sample	65.6	64.2	64.0	64.6	3.8	2.4	3.8	4.0	4.8	5.4	5.0	4.3	6.0	3.4	3.2	4.6	6.7	6.6	7.2	7.2
Spring sample	66.4	60.4	62.4	63.2	2.8	3.4	2.6	4.2	5.2	8.2	7.0	5.6	3.4	2.2	2.2	4.4	5.5	5.5	5.9	5.4
Composite sample when loaded out	57.0	62.0	62.0	66.0	3.0	1.0	1.0	3.0	13.0	7.0	8.0	4.0	2.0	3.0	4.0	1.0	5.3	5.2	5.1	4.9

1/ These peanuts were held in storage approximately 33 months.

Bin No. 5, 6-ton steel bin, perforated floor, tube and roof ventilation.
Bin No. 10, 6-ton steel bin, solid floor, standard exhaust vent.
Bin No. 13, 6-ton wooden bin, tight sides.
Bin No. 29, 12-ton steel bin, perforated floor, tube and roof ventilation.

Table 23.--Spanish and Virginia peanuts, 1952 and 1953 crops: Changes in grade factors of farmers stock peanuts stored in bulk for 2 seasons 1/

Crop year, type, and grade factor	Composite sample at purchase	Average of samples from all positions								Composite sample when loaded out
		1952-53 storage period				1953-54 storage period				
		First sample from bin	Winter	Spring	Summer	Fall	Winter	Spring	Summer	
1952 crop	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Spanish:										
Bin 4:										
Sound mature kernels	66.3	59.7	61.0	63.5	64.5	58.8	62.3	62.2	60.5	62.0
Damaged kernels	1.5	3.7	4.7	2.8	3.0	3.3	3.7	2.8	3.0	2.0
Other kernels	6.7	8.2	6.8	7.0	6.7	8.8	6.7	7.7	8.0	9.0
Foreign material	6.0	4.2	4.3	5.2	5.5	6.7	6.5	5.2	7.0	4.3
Kernel moisture	6.0	6.5	6.5	5.8	5.7	6.0	6.8	6.6	7.0	4.3
Southwest Spanish:										
Bin 2:										
Sound mature kernels	66.0	65.2	66.0	64.0	62.5	66.5	65.3	66.3	66.3	63.0
Damaged kernels	1.0	1.0	1.2	1.2	2.5	1.8	1.2	1.0	1.0	1.0
Other kernels	4.0	5.0	4.5	6.2	6.3	5.8	5.0	4.2	3.9	7.0
Foreign material	5.0	4.5	5.0	4.8	3.3	6.2	3.8	3.5	2.6	4.0
Kernel moisture	7.6	6.3	5.4	5.3	5.2	4.7	4.8	5.5	3.3	3.2
Virginia type:										
Bin B:										
Sound mature kernels	68.0	66.7	66.2	67.0	68.7	65.5	65.3	66.0	66.7	64.8
Damaged kernels	1.0	1.3	1.3	1.7	1.0	2.8	2.8	2.8	2.0	2.5
Other kernels	2.0	2.7	3.0	2.8	2.2	2.3	2.5	2.2	2.0	2.5
Foreign material	1.0	4.7	3.2	5.5	2.5	3.3	3.8	2.8	3.8	4.3
Fancy size	81.0	69.5	72.8	77.2	84.0	87.3	80.5	78.8	80.7	76.3
Extra large kernels	36.0	33.5	29.8	37.3	39.3	33.0	35.7	34.0	32.5	30.3
Kernel moisture	11.8	10.8	8.4	6.7	6.6	7.0	9.5	7.9	6.5	6.8
		1953-54 storage period				1954-55 storage period				
1953 crop										
Southeast Spanish:										
Bin 5:										
Sound mature kernels	72.0	71.8	71.8	70.7	68.8	69.2	69.7	68.8	70.7	69.0
Damaged kernels	2.0	1.5	1.5	1.8	2.8	3.7	2.3	2.0	2.3	1.0
Other kernels	4.0	5.7	5.7	6.2	6.7	6.0	6.8	7.8	6.2	9.0
Foreign material	2.0	2.0	2.0	3.3	3.3	3.7	4.2	3.2	5.0	7.0
Kernel moisture	7.0	6.0	6.0	5.2	7.0	5.0	4.3	3.2	5.0	4.9
Southwest Spanish:										
Bin 3:										
Sound mature kernels	72.0	72.3	72.7	72.3	71.3	72.9	72.7	73.1	70.0	72.0
Damaged kernels	1.0	1.0	1.0	1.0	1.5	1.0	1.3	1.0	1.0	1.0
Other kernels	3.0	3.5	3.0	2.3	3.2	2.1	3.0	2.9	4.0	4.0
Foreign material	4.0	6.5	11.8	5.8	6.2	5.6	6.6	4.7	5.0	7.0
Kernel moisture	8.1	5.7	5.3	5.3	4.3	3.5	6.0	--	--	4.0
Virginia type:										
Bin E:										
Sound mature kernels	70.0	69.2	69.5	68.3	68.8	65.3	66.3	65.7	64.0	66.0
Damaged kernels	1.0	1.5	1.0	1.2	.8	3.2	2.8	3.2	4.7	3.0
Other kernels	2.0	2.3	2.2	2.3	2.8	3.5	2.8	3.5	4.0	4.0
Foreign material	1.0	3.2	3.0	3.3	2.8	2.3	2.7	4.0	4.2	6.0
Fancy size	92.0	75.7	67.2	72.8	75.0	74.5	75.2	68.3	65.0	88.0
Extra large kernels	52.0	45.0	39.0	40.0	38.2	32.3	40.3	35.0	33.3	36.0
Kernel moisture	7.5	8.4	6.5	7.6	6.1	6.1	7.4	8.0	6.4	7.0

1/ These peanuts were held in storage approximately 19 to 23 months in 6-ton steel bins, perforated floor, tube and roof ventilation.

Table 24.--Runner and Spanish peanuts, 1954 crop: Changes in grade factors of farmers stock peanuts stored in bulk for 2 seasons 1/

Type of peanuts, bin number, and grade factor	Composite sample at purchase	Average of samples from all positions								Composite sample when loaded out
		1954-55 storage period				1955-56 storage period				
		First sample from bin:	Winter	Spring	Summer	Fall	Winter	Spring	Summer	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners: 2/										
Bin 14:										
Sound mature kernels	59.0	59.3	60.7	61.1	54.7	57.0	53.7	55.0	55.7	55.0
Damaged kernels	1.0	.9	.4	.4	1.1	1.7	2.0	1.9	2.3	3.0
Other kernels	6.0	5.7	5.4	5.1	7.9	7.0	7.9	7.4	6.7	8.0
Foreign material	7.0	9.4	9.0	9.9	7.9	7.0	5.2	7.7	6.9	9.0
Kernel moisture	14.6	7.0	6.0	5.7	4.8	4.9	5.7	5.2	5.2	5.1
Bin 15:										
Sound mature kernels	66.0	65.4	64.1	64.8	63.8	65.0	60.7	62.9	61.8	64.0
Damaged kernels	1.6	1.0	1.6	.8	2.2	2.0	2.3	2.1	2.6	2.0
Other kernels	5.0	3.6	4.1	4.6	4.2	5.0	6.9	5.3	5.4	6.0
Foreign material	3.0	3.9	5.0	3.8	5.0	4.0	4.4	4.6	4.8	3.0
Kernel moisture	13.2	6.5	7.0	6.0	5.3	5.0	5.7	4.9	5.3	6.0
Bin 16:										
Sound mature kernels	67.0	69.3	69.0	69.9	68.7	67.0	66.6	66.2	65.4	63.0
Damaged kernels	1.1	.7	.9	.4	1.3	2.0	2.9	2.6	2.8	4.0
Other kernels	4.0	2.9	3.7	3.6	3.3	5.0	4.3	4.4	5.2	5.0
Foreign material	4.0	2.9	3.0	2.7	2.4	2.0	2.6	3.0	2.6	3.0
Kernel moisture	8.9	6.1	6.0	4.3	4.8	4.8	6.5	4.9	4.9	5.0
Bin 19:										
Sound mature kernels	64.0	66.7	66.0	69.0	65.3	63.0	65.3	64.0	63.0	55.0
Damaged kernels	1.5	.7	2.3	1.0	3.0	3.3	1.3	2.7	3.7	9.0
Other kernels	8.0	6.0	4.7	4.7	5.0	7.0	6.0	6.7	6.1	8.0
Foreign material	4.0	3.7	3.6	5.7	5.0	5.0	3.3	3.7	3.7	8.0
Kernel moisture	5.6	6.4	6.4	4.7	5.3	6.5	6.6	4.9	5.7	6.0
Bin 23:										
Sound mature kernels	65.0	62.3	63.0	61.4	58.8	59.0	56.8	54.6	56.0	59.0
Damaged kernels	1.0	1.7	.9	2.4	4.4	3.8	4.6	4.8	5.2	5.0
Other kernels	4.0	5.3	5.6	6.4	7.9	7.0	7.6	8.4	7.8	6.0
Foreign material	8.0	8.9	11.0	9.4	8.6	9.0	7.2	7.4	8.2	13.0
Kernel moisture	17.6	6.8	7.8	4.0	4.9	5.3	6.9	5.6	5.3	5.7
Bin 26:										
Sound mature kernels	62.0	58.8	61.2	61.0	59.4	59.4	55.0	57.6	56.0	57.0
Damaged kernels	4.0	3.8	3.4	2.6	3.0	3.0	5.2	4.0	5.4	4.0
Other kernels	3.0	5.8	3.8	4.2	5.4	5.4	6.2	6.4	6.0	6.0
Foreign material	6.0	13.0	14.0	12.8	15.0	15.0	14.2	13.8	13.2	5.0
Kernel moisture	13.6	7.0	7.3	3.9	5.1	5.1	7.3	5.2	5.4	5.6
Bin 30:										
Sound mature kernels	69.0	69.3	69.3	68.8	65.5	64.0	63.3	61.8	60.3	62.8
Damaged kernels	.7	1.0	1.0	.5	2.0	3.5	2.8	3.8	4.8	3.1
Other kernels	3.0	2.8	3.3	4.0	4.5	3.0	5.0	6.0	5.5	3.6
Foreign material	4.0	3.8	4.0	4.3	4.0	4.0	3.5	3.3	3.5	5.0
Kernel moisture	13.0	5.1	5.9	5.5	4.8	5.2	6.9	4.9	5.4	5.0
Southeast Spanish: 3/										
Bin 4:										
Sound mature kernels	65.7	64.5	63.3	66.3	62.0	64.5	63.2	62.3	62.3	62.3
Damaged kernels	3.3	4.0	3.3	2.3	4.0	4.2	3.5	4.2	4.2	4.2
Other kernels	--	4.8	5.7	5.0	5.5	4.3	5.3	5.7	5.7	5.7
Foreign material	5.5	4.2	4.5	5.0	5.3	6.8	5.5	4.8	4.8	4.8
Kernel moisture	6.9	5.5	5.5	5.0	--	5.0	6.0	5.5	5.5	5.5
Southwest Spanish: 4/										
Bin 5:										
Sound mature kernels	62.0	59.0	61.0	57.0	59.0	60.0	59.4	59.4	61.4	64.6
Damaged kernels	1.0	2.0	1.0	1.0	1.4	1.0	1.0	1.4	.8	1.0
Other kernels	8.3	8.9	7.4	10.9	8.1	8.0	7.4	6.3	7.4	6.3
Foreign material	6.7	8.9	7.7	7.0	7.4	6.0	8.6	7.7	8.6	9.6
Kernel moisture	7.0	6.5	5.5	6.2	--	--	--	--	--	--

1/ These peanuts were held in storage approximately 17 to 22 months. 2/ Bins 14, 15, and 23, 6-ton wooden bins, slatted sides; Bin 16, 12-ton steel bin, perforated floor, tube and roof ventilation; Bin 19, 6-ton rough unmatched lumber; Bin 26, 2-ton wooden bin, slatted sides; Bin 30, 12-ton steel bin, tight. 3/ Bin 4, 6-ton steel bin, perforated floor, tube and roof ventilation. 4/ Bin 5, 6-ton steel bin, perforated floor, humidity controlled.

Table 25.--Runner and Spanish peanuts, 1955 crop: Change in grade factors of farmers stock peanuts stored in bulk for 2 seasons 1/

Type of peanuts, bin number, and grade factor	Composite sample at purchase	Average of samples from all positions							Composite sample when loaded out
		1955-56 storage period				1956-57 storage period			
		First sample from bin	Winter	Spring	Summer	Fall	Winter	Spring	
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Southeast Runners: 2/									
Bin 1:									
Sound mature kernels	70.3	63.8	63.8	66.2	61.8	61.0	62.8	61.6	59.0
Damaged kernels	1.7	5.0	5.0	3.8	8.8	8.2	6.8	8.2	10.0
Other kernels	3.4	4.5	4.5	3.8	3.8	4.8	3.8	3.8	5.0
Foreign material	6.4	1.3	1.3	1.6	2.2	3.0	1.2	.8	1.0
Kernel moisture	15.4	6.8	6.8	6.8	5.7	5.1	6.7	5.9	5.9
Bin 2:									
Sound mature kernels	69.7	69.4	69.4	69.0	68.0	66.2	67.6	67.0	66.0
Damaged kernels	1.0	.8	.8	1.2	2.4	2.6	2.8	2.2	2.0
Other kernels	3.3	3.2	3.2	3.6	4.0	5.0	2.8	4.4	5.0
Foreign material	2.4	1.2	1.2	1.0	1.4	1.2	1.2	1.2	1.0
Kernel moisture	10.3	6.4	6.4	6.5	5.4	5.1	6.5	6.0	6.0
Bin 3:									
Sound mature kernels	71.6	68.2	68.2	67.4	67.4	68.2	67.0	67.0	66.0
Damaged kernels	.4	1.0	1.0	2.6	2.0	1.6	2.2	1.8	2.0
Other kernels	2.0	4.8	4.8	4.2	5.0	4.0	4.6	4.8	5.0
Foreign material	5.0	1.4	1.4	1.2	1.8	1.4	1.0	.4	.0
Kernel moisture	13.1	6.5	6.5	7.0	5.6	5.3	6.8	5.6	5.6
Bin 25:									
Sound mature kernels	70.0	70.6	70.6	70.0	70.2	68.8	67.8	67.6	67.0
Damaged kernels	0	.4	.4	1.2	1.8	2.0	3.6	3.4	2.0
Other kernels	2.2	3.0	3.0	2.4	2.2	3.0	2.2	2.4	3.0
Foreign material	2.6	2.2	2.2	1.8	2.8	1.8	1.2	1.0	3.0
Kernel moisture	12.9	6.6	6.6	6.8	5.5	5.7	7.0	6.3	6.3
Bin 28:									
Sound mature kernels	70.0	69.2	69.2	70.8	70.6	68.0	69.0	69.0	65.0
Damaged kernels	.6	1.2	1.2	.4	1.0	2.4	1.8	2.4	2.0
Other kernels	2.4	2.8	2.8	2.4	2.4	3.2	2.8	2.2	5.0
Foreign material	2.7	2.0	2.0	2.0	2.2	2.8	2.8	1.6	2.0
Kernel moisture	13.4	6.5	6.5	7.0	5.3	5.4	7.4	7.0	7.0
Southeast Spanish: 3/									
Bin 1:									
Sound mature kernels	75.9	73.9	--	73.2	--	--	--	72.0	72.0
Damaged kernels	1.4	1.5	--	2.0	--	--	--	1.7	2.0
Other kernels	2.0	4.0	--	3.7	--	--	--	4.8	4.0
Foreign material	2.0	4.2	--	3.5	--	--	--	3.8	2.0
Kernel moisture	13.7	5.7	--	5.2	--	--	--	6.0	6.0

1/ These peanuts were held in storage approximately 21 months.
2/ Bins 1 and 3, 6-ton steel bins, perforated floor covered with building paper and all seams and joints were sealed inside with roofing cement to make these bins as nearly airtight as possible; Bin 2, 6-ton steel bin, perforated floor, mechanical ventilation; Bins 25 and 28, 5-ton wooden bins, slatted sides.
3/ Bin 1, 6-ton steel bin, perforated floor, tube and roof ventilation.

Table 26.--Change in chemical analysis of 1952-crop farmers stock peanuts during bulk storage, by type of peanuts 1/

Type and chemical analysis	Composite sample when loaded in	Average of samples from all positions: First sample from bins	Winter	Spring	Summer	Composite sample when loaded out
	Percent	Percent	Percent	Percent	Percent	Percent
Southeast Runners:						
Free fatty acid	0.32	0.22	0.22	0.37	0.39	0.39
Oil	47.3	49.4	47.7	45.9	46.7	46.7
Ammonia	5.15	5.15	5.82	6.01	6.01	5.79
Rancidity	.46	.45	.59	.28	.52	.57
Southeast Spanish:						
Free fatty acid	.40	.41	.51	.45	.79	.82
Oil	43.0	43.1	42.7	43.4	43.6	43.6
Ammonia	6.11	6.11	6.08	6.17	6.13	6.13
Southwest Spanish:						
Free fatty acid	--	.25	.28	.26	.42	.42
Oil	--	45.0	46.6	46.4	46.2	46.2
Ammonia	--	5.94	6.08	6.12	5.96	5.96
Virginia type:						
Free fatty acid	--	.29	.27	.25	.48	.33
Oil	--	43.5	43.8	44.7	44.8	44.1
Ammonia	--	5.76	5.82	5.84	5.85	5.82

1/ Data exclude bins held over for second year observation.

Table 27.--Change in chemical analysis of 1953-crop farmers stock peanuts during bulk storage, by type of peanuts 1/

Type and chemical analysis	Composite sample when loaded in	Average of samples from all positions: First sample from bins	Winter	Spring	Summer	Composite sample when loaded out
	Percent	Percent	Percent	Percent	Percent	Percent
Southeast Runners:						
Free fatty acid	--	0.37	0.41	0.87	0.70	0.55
Oil	--	48.0	47.8	48.2	47.8	46.3
Ammonia	--	5.99	5.66	5.39	5.56	5.49
Rancidity	--	.58	.60	.27	.27	.27
Southeast Spanish:						
Free fatty acid	0.53	.49	.52	.46	.62	.64
Oil	43.3	43.5	43.5	42.9	42.8	43.8
Ammonia	5.61	5.64	5.69	5.64	5.38	5.75
Southwest Spanish:						
Free fatty acid	--	.33	.27	.31	.30	.40
Oil	--	44.9	45.6	45.4	45.4	45.6
Ammonia	--	6.09	6.05	6.12	6.37	6.54
Virginia type:						
Free fatty acid	--	.29	.29	.27	.48	.50
Oil	--	46.2	44.5	44.8	45.4	47.2
Ammonia	--	5.52	5.39	5.47	5.53	5.60

1/ Data exclude bins held over for second year observation.

Table 28.--Change in chemical analysis of 1954-crop farmers stock peanuts during bulk storage, by type of peanuts 1/

Type and chemical analysis	Composite sample when loaded in	Average of samples from all positions: First sample from bins	Winter	Spring	Summer	Composite sample when loaded out
	Percent	Percent	Percent	Percent	Percent	Percent
Southeast Runners:						
Free fatty acid	--	0.79	0.57	0.64	0.70	--
Oil	--	52.1	48.2	49.3	--	--
Ammonia	--	6.16	5.35	5.45	--	--
Rancidity	--	.25	.22	.21	---	--
Southeast Spanish:						
Free fatty acid	--	1.06	.82	1.01	1.09	--
Oil	--	41.6	41.4	41.4	42.3	--
Ammonia	--	6.26	6.19	6.34	6.37	--
Southwest Spanish:						
Free fatty acid	--	.14	.22	.15	.25	0.28
Oil	--	43.6	45.2	45.7	45.7	45.5
Ammonia	--	6.11	6.13	6.10	6.20	--
Virginia type:						
Free fatty acid	--	.52	.42	.26	.57	--
Oil	--	44.6	44.5	44.7	45.6	--
Ammonia	--	5.62	5.66	5.68	5.63	--

1/ Data exclude bins held over for second year observation.

Table 29.--Change in chemical analysis of 1955-crop farmers stock peanuts during bulk storage, by type of peanuts 1/

Type and chemical analysis	Composite sample when loaded in	Average of samples from all positions			Composite sample when loaded out
		First sample from bins	Winter	Spring	
	Percent	Percent	Percent	Percent	Percent
Southeast Runners: 2/					
Free fatty acid	0.90	1.25	1.25	1.53	--
Oil	48.9	47.9	47.9	48.9	49.0
Ammonia	6.42	5.82	5.82	6.26	5.63
Rancidity	.22	--	--	.21	--
Southeast Spanish:					
Free fatty acid	--	1.20	1.10	1.30	1.30
Oil	--	43.9	43.5	43.8	43.8
Ammonia	--	5.75	5.77	5.69	5.69
Southwest Spanish:					
Free fatty acid	--	.05	.35	.15	.15
Oil	--	46.8	47.1	47.3	47.3
Ammonia	--	6.17	6.14	4.94	4.94

1/ Data exclude bins on a schedule of sampling on an in-and-out basis only.
2/ Data for Alabama include several bins held over for second year observation. Composite out data for holdover bins based on samples drawn in May 1956.

Table 30.--Change in chemical analysis of 1956-crop farmers stock peanuts during bulk storage, by type of peanuts

Type and chemical analysis	Average of samples from all positions: First sample from bins	Winter	Spring	Composite sample when loaded out
	Percent	Percent	Percent	Percent
Southeast Runners: 1/				
Free fatty acid	0.27	--	0.33	--
Oil	47.9	--	48.0	--
Ammonia	5.81	--	5.65	--
Rancidity	.22	--	2/.05	--
Southeast Spanish: 3/				
Free fatty acid	1.00	1.30	1.20	1.30
Oil	44.4	44.2	44.2	44.2
Ammonia	5.59	5.53	5.53	5.61
Southwest Spanish:				
Free fatty acid	.13	.15	.34	.35
Oil	43.7	43.9	44.4	44.4
Ammonia	6.11	6.08	6.18	6.25

1/ Data exclude bins treated with lindane and held over for further observation.

2/ Lower than previous figures due to quick drying method (130° C. for 20 minutes) compared with old method (70° C. for 4 days).

3/ Data exclude bins on a schedule of sampling on an in-and-out basis only.

Table 31.--Loss in weight of farmers stock peanuts stored in bulk, by type and crop years

Crop year, type of peanuts, and bin number	Kernel moisture when loaded in	Length of storage	Percentage loss in weight	
			Gross weight 1/	Dry weight of kernels 2/
	Percent	Months	Percent	Percent
1952 crop:				
Southeast Runners:				
Bin 1	11.0	9.0	9.1	3.5
Bin 2	5.3	9.3	.4	5.0
Bin 3	8.0	9.0	4.8	3.3
Bin 5	11.5	9.7	12.4	5.6
Bin 6	5.3	9.7	1.1	+.2
Bin 7	8.4	9.7	5.5	+1.2
Bin 8	8.4	9.0	7.4	4.1
Bin 9	6.0	8.3	2.5	3.0
Bin 10	5.0	9.7	1.4	2.6
Bin 13	10.4	9.7	11.2	5.9
Bin 14	13.4	9.0	10.7	5.3
Bin 15	7.2	8.5	3.8	3.1
Bin 16	6.8	8.3	3.4	1.0
Bin 18	6.6	8.0	2.8	2.7
Bin 19	6.0	8.3	2.7	5.0
Average	8.0	9.0	4.8	3.0
Southeast Spanish:				
Bin 1	5.0	10.0	.4	5.0
Bin 2	5.9	10.0	2.0	+1.7
Bin 3	5.5	9.7	1.4	2.0
Average	5.5	9.9	1.2	2.1
Southwest Spanish:				
Bin 1	11.0	11.0	13.3	7.5
Bin 3	8.5	10.5	9.2	7.5
Bin 4	6.5	10.5	15.1	5.1
Average	8.7	10.7	12.5	6.8
Virginia type:				
Bin A	8.0	9.0	2.1	2.9
Bin C	9.3	9.0	4.3	1.0
Bin D	9.3	9.0	6.3	4.0
Average	8.9	9.0	4.2	2.6

See footnotes at end of table. --Continued

Table 31.--Loss in weight of farmers stock peanuts stored in bulk, by type and crop years--Continued

Crop year, type of peanuts, and bin number	Kernel moisture when loaded in	Length of storage	Percentage loss in weight	
			Gross weight 1/	Dry weight of kernels 2/
	Percent	Months	Percent	Percent
1953 crop:				
Southeast Runners:				
Bin 1	8.8	11.7	5.4	4.0
Bin 2	9.7	11.7	6.0	.8
Bin 3	12.0	11.7	9.8	4.0
Bin 5	8.7	11.7	7.0	6.3
Bin 6	6.9	11.7	5.9	4.0
Bin 8	9.0	11.7	7.4	3.2
Bin 10	7.0	11.7	4.1	.2
Bin 13	11.0	11.7	9.7	.8
Bin 14	13.6	12.0	12.4	+.3
Bin 15	8.9	12.0	5.5	.3
Bin 16	9.9	11.7	9.3	6.9
Bin 18	11.3	11.7	8.2	3.4
Bin 19	8.5	11.0	6.2	3.7
Bin 20	10.1	10.5	10.3	1.9
Bin 21	9.9	10.5	9.0	+.7
Bin 23	14.0	11.7	13.0	2.4
Bin 24	10.2	10.5	2.0	+4.1
Bin 25	11.2	11.7	7.4	2.8
Bin 26	12.2	11.7	9.3	1.7
Bin 28	13.0	11.7	13.8	8.1
Bin 29	10.8	10.5	10.4	5.2
Bin 30	14.0	11.5	13.4	1.4
Average	10.5	11.5	8.5	2.7
Southeast Spanish:				
Bin 1	8.3	11.0	4.5	+.6
Bin 2	8.6	10.5	6.3	1.9
Bin 3	7.0	8.3	2.5	1.0
Average	8.0	9.9	4.5	.8
Southwest Spanish:				
Bin 1	10.2	10.0	19.0	4.5
Bin 4	6.3	8.3	13.2	5.7
Bin 5	9.0	8.7	5.1	1.7
Bin 6	8.5	8.5	5.6	1.2
Average	8.5	8.9	10.6	3.1

See footnotes at end of table.

--Continued

Table 31.--Loss in weight of farmers stock peanuts stored in bulk, by type and crop years--Continued

Crop year, type of peanuts, and bin number	Kernel moisture when loaded in	Length of storage	Percentage loss in weight: Gross weight 1/	Percentage loss in weight: Dry weight of kernels 2/
	Percent	Months	Percent	Percent
1953 crop--Continued:				
Virginia type:				
Bin A	8.1	10.0	11.3	10.0
Bin C	8.1	9.5	+4.0	+4.0
Bin D	8.1	9.5	16.5	16.9
Average	8.1	9.7	8.6	8.4
1954 crop:				
Southeast Runners:				
Bin 1	9.0	10.3	6.2	1.0
Bin 2	11.5	11.0	6.7	.3
Bin 3	13.0	10.3	9.7	6.4
Bin 6	10.8	11.0	7.4	.1
Bin 8	5.9	10.7	3.4	.6
Bin 20	10.8	10.3	11.3	4.2
Bin 21	12.0	10.3	12.1	6.3
Bin 24	12.6	11.0	10.2	3.4
Bin 25	14.1	10.7	11.6	5.2
Bin 28	12.1	10.7	10.9	5.8
Average	11.2	10.6	8.9	3.2
Southeast Spanish:				
Bin 1	13.8	10.0	12.6	7.2
Bin 2	11.7	10.7	7.8	2.6
Bin 3	6.8	10.7	4.1	3.6
Average	10.8	10.5	8.3	4.6
Southwest Spanish:				
Bin 1	8.4	5.5	4.0	3.4
Bin 2	11.0	6.8	6.6	1.7
Bin 4	10.9	5.5	3.6	1.7
Bin 6	11.0	6.8	6.5	1.5
Average	10.3	6.2	5.5	2.1
Virginia type:				
Bin B	9.0	8.3	4.0	1.8
Bin C	9.0	8.3	5.3	6.7
Bin D	11.0	8.5	6.1	1.2
Average	9.7	8.4	5.2	3.2

See footnotes at end of table.

--Continued

Table 31.--Loss in weight of farmers stock peanuts stored in bulk, by type and crop years--Continued

Crop year, type of peanuts, and bin number	Kernel moisture when loaded in	Length of storage	Percentage loss in weight: Gross weight 1/	Percentage loss in weight: Dry weight of kernels 2/
	Percent	Months	Percent	Percent
1955 crop:				
Southeast Runners:				
Bin 6	9.2	6.3	4.1	1.1
Bin 8	11.5	7.7	8.4	1.2
Bin 20	10.2	7.7	7.8	1.1
Bin 21	12.3	7.7	10.6	2.0
Bin 24	10.2	6.3	1.2	.2
Average	10.7	7.1	6.2	1.1
Southeast Spanish:				
Bin 2	6.2	9.0	+.2	+1.6
Bin 3	6.4	8.7	2.2	+.5
Bin 5	12.3	10.3	7.3	2.1
Average	8.3	9.3	3.3	.03
Southwest Spanish:				
Bin 1	6.0	8.3	2.1	4.5
Bin 2	8.1	8.7	10.9	10.4
Bin 3	6.0	8.3	5.6	14.6
Bin 4	8.1	8.7	5.0	5.3
Bin 6	9.0	8.7	6.8	7.3
Average	7.4	8.5	6.1	8.4
Virginia type:				
Bin A	7.0	4.0	+1.2	3.6
Bin B	7.0	4.0	+1.1	2.2
Bin C	14.0	7.0	16.7	15.3
Bin D	16.0	7.0	18.8	20.0
Average	11.0	5.5	8.6	10.3
1956 crop:				
Southeast Runners:				
Bin 8	11.0	9.5	8.7	1.1
Bin 15	6.0	9.3	.3	+1.6
Bin 20	7.0	9.3	2.0	+.2
Bin 23	7.0	9.3	3.9	3.3
Bin 24	8.0	9.3	4.0	1.4
Average	7.8	9.3	4.1	.5

See footnotes at end of table.

--Continued

Table 31.--Loss in weight of farmers stock peanuts stored in bulk, by type and crop years--Continued

Crop year, type of peanuts, and bin number	Kernel moisture when loaded in	Length of storage	Percentage loss in weight: Gross weight 1/	Percentage loss in weight: Dry weight of kernels 2/
	Percent	Months	Percent	Percent
1956 crop--Continued:				
Southeast Spanish:				
Bin 2	6.8	8.0	0.5	1.7
Bin 3	6.4	8.0	1.1	+1.2
Bin 4	7.0	8.0	3.1	3.6
Bin 5	14.1	7.7	11.7	7.1
Average	8.6	7.9	4.2	2.7
Southwest Spanish:				
Bin 1	10.0	5.5	+.1	+.7
Bin 2	9.2	5.5	2.2	7.3
Bin 5	11.2	5.5	4.6	3.6
Bin 6	11.2	5.5	2.6	+1.3
Average	10.4	5.5	2.6	2.4
Virginia type:				
Bin A	12.0	6.3	7.6	3.7
Bin B	12.0	6.0	3.6	+3.1
Bin C	9.0	6.0	4.9	.2
Bin D	8.0	6.0	4.0	5.2
Average	10.3	6.1	5.1	1.5

1/ Difference in gross weight of peanuts when loaded in and gross weight of peanuts when loaded out.

2/ Difference in dry weight of kernels when loaded in and dry weight of kernels when loaded out.

Table 32.--Loss in weight of farmers stock peanuts stored in bulk, by type, 1952-55 crops

Crop year, type of peanuts, and bin number	Kernel moisture when loaded in	Length of storage	Percentage loss in weight	
			Gross Weight 1/	Dry weight of kernels 2/
	Percent	Months	Percent	Percent
1952 crop				
Southeast Runners:				
Bin 4	9.0	56.0	14.9	10.4
Bin 11	10.9	55.7	8.7	5.5
Bin 12	6.0	55.3	4.8	5.9
Bin 17	6.0	54.7	7.0	7.0
Average	8.0	55.4	8.3	7.1
Southeast Spanish:				
Bin 4	6.0	21.0	2.8	+.6
Southwest Spanish:				
Bin 2	7.6	21.3	5.4	+.1
Virginia type:				
Bin B	11.8	21.0	9.7	7.5
1953 crop				
Southeast Runners:				
Bin 7	11.1	45.0	9.6	2.9
Bin 9	9.8	45.0	7.6	1.4
Bin 22	9.0	44.5	9.1	4.5
Bin 27	8.6	45.0	5.7	8.0
Average	9.6	44.9	7.8	4.4
Southeast Spanish:				
Bin 5	7.0	19.0	.3	1.9
Southwest Spanish:				
Bin 3	8.1	19.5	4.7	2.3
Virginia type:				
Bin E	7.5	20.5	+.1	4.4

See footnotes at end of table.

--Continued

Table 32.--Loss in weight of farmers stock peanuts stored in bulk, by type, 1952-55 crops--Continued

Crop year, type of peanuts, and bin number	Kernel moisture when loaded in	Length of storage	Percentage loss in weight: Gross weight 1/	Percentage loss in weight: Dry weight of kernels 2/
	Percent	Months	Percent	Percent
1954 crop				
Southeast Runners:				
Bin 5	7.7	32.0	6.1	2.6
Bin 10	9.6	32.3	6.8	6.2
Bin 13	11.2	32.0	8.2	3.5
Bin 29	12.4	32.5	12.8	3.5
Average	10.2	32.2	9.3	3.8
Southeast Spanish:				
Bin 4	6.9	20.0	4.0	.2
Southwest Spanish:				
Bin 5	7.0	19.0	3.8	3.1
1955 crop				
Southeast Runners:				
Bin 1	15.4	21.0	15.0	2.6
Bin 2	10.3	21.0	10.2	6.3
Bin 3	13.1	21.0	10.9	.8
Bin 25	12.9	21.0	11.8	5.7
Bin 28	13.4	21.0	10.8	4.8
Average	13.0	21.0	11.7	4.0
Southeast Spanish:				
Bin 1	13.7	20.0	11.3	5.0

1/ Difference in gross weight of peanuts when loaded in and gross weight of peanuts when loaded out.

2/ Difference in dry weight of kernels when loaded in and dry weight of kernels when loaded out.

Table 33.--Percentage of insect-damaged kernels in pods and in loose shelled kernels collected from storage bins at Tifton, Ga., each season between 1952 and 1956

Storage season and date of sampling	Bins observed	Samples from surface					Samples from load mass				
		Damage to kernels in--			Damage to loose shelled kernels		Damage to kernels in--			Damage to loose shelled kernels	
		Solid pods	Cracked pods	All pods	Total	Percentage damage	Solid pods	Cracked pods	All pods	Total	Percentage damage
	Number	Percent	Percent	Percent	Number	Percent	Percent	Percent	Percent	Number	Percent
1952-53:											
November 24 (load-in)	2	0	0.46	0.19	25	0	0	0.43	0.18	32	0
February 3	2	0	1.84	.59			0	2.24	.89		
March 6	2	0	.72	.21			0	1.59	.44		
April 6	2	0	6.22	1.75			0	2.72	.97		
May 6	2	0	10.60	3.52			0	3.48	1.24		
June 2	2	0	13.31	4.82			0	3.73	1.36		
July 7	2	0	21.29	7.95			0	9.77	3.97		
August 14 (load-out)	2	0	17.89	7.28	27	18.4	0	15.07	6.35	28	40.0
1953-54:											
December 16 (load-in)	1	0	2.08	.79	23	4.4	0	1.00	.42	18	0
December 28	1	0	4.00	1.61			0	1.53	.76		
February 9	1	0	3.69	1.48			0	3.10	1.54		
April 16	1	0	9.38	3.66			0	8.09	4.42		
June 9	1	0	15.89	6.54			0	11.45	6.10		
August 17 (load-out)	1	0	12.80	6.30	27	26.0	0	17.82	6.92	31	41.9
1954-55:											
October 1 (load-in)	4	0	3.10	.77	25	0	0	1.40	.30	20	2.5
November 29	4	0	6.24	1.71			0	3.16	1.07		
January 3	4	0	11.33	3.09			0	8.79	2.77		
March 29	4	0	17.06	5.01			0	11.86	3.88		
May 27	4	0	18.74	7.39			0	14.58	5.75		
July 25 (load-out)	4	0	16.50	5.80	24	28.7	0	14.59	5.80	23	40.0
1955-56:											
November 9 (load-in)	4	0	2.72	.74	17	3.0	0	1.60	.53	30	1.6
November 30	4	0	7.96	2.06			0	3.50	1.52		
January 17	4	0	6.60	1.90			0	6.60	2.80		
February 16	4	0	15.80	4.70			0	18.20	5.80		
April 17	4	0	23.90	2.50			0	15.10	2.50		
May 14	4	0	9.30	3.00			0	5.60	1.80		
July 21 (load-out)	4	0	7.95	2.68	22	20.7	0	12.54	3.47	31	18.3
1956-57:											
October 5 (load-in)	4	0	0	0	16	0	0	0	0	35	0
November 15	4	0	3.7	.8			0	2.3	.5		
January 4	4	0	8.8	2.7			0	3.7	1.6		
February 18	4	0	4.4	2.3			0	5.3	2.6		
March 19	4	0	17.9	5.5			0	10.9	3.6		
April 16	4	0	11.1	3.1			0	6.3	2.2		
May 17	4	0	21.1	5.7			0	7.3	2.4		
May 22 (load-out)	4	-	-	-	15	40.0	0	8.7	3.4	23	30.2

Source: Summary of Stored-Peanut Studies. Special Report C-310. Stored-Product Insects Section, Biological Sciences Branch, March 1, 1958.

Table 34.--Milling loss of farmers stock peanuts stored in bulk, by type and crop years

Crop year, type of peanuts, and bin number	Kernel moisture when loaded in	Length of storage	Milling loss 1/
	Percent	Months	Percent
1952 crop			
Southeast Runners:			
Bin 1	11.0	9.0	1.34
Bin 2	5.3	9.3	1.82
Bin 3	8.0	9.0	2.80
Bin 5	11.5	9.7	2.18
Bin 6	5.3	9.7	1.70
Bin 7	8.4	9.7	.74
Bin 8	8.4	9.0	+.66
Bin 9	6.0	8.3	.97
Bin 10	5.0	9.7	1.70
Bin 13	10.4	9.7	.97
Bin 14	13.4	9.0	1.97
Bin 15	7.2	8.5	1.35
Bin 16	6.8	8.3	.36
Bin 18	6.6	8.0	.72
Bin 19	6.0	8.3	.74
Average	8.0	9.0	1.11
Southeast Spanish:			
Bin 1	5.0	10.0	.96
Bin 2	5.9	10.0	.46
Bin 3	5.5	9.7	+.06
Average	5.5	9.9	.45
Virginia type:			
Bin A	8.0	9.0	1.62
Bin C	9.3	9.0	.43
Bin D	9.3	9.0	.45
Average	8.9	9.0	.84
1953 crop			
Southeast Runners:			
Bin 1	8.8	11.7	2.75
Bin 2	9.7	11.7	1.18
Bin 3	12.0	11.7	2.60
Bin 5	8.7	11.7	4.65
Bin 6	6.9	11.7	3.53

See footnote at end of table.

--Continued

Table 34.--Milling loss of farmers stock peanuts stored in bulk, by type and crop years--Continued

Crop year, type of peanuts, and bin number	Kernel moisture when loaded in	Length of storage	Milling loss 1/
	Percent	Months	Percent
Southeast Runners--Cont'd.			
Bin 8	9.0	11.7	3.27
Bin 10	7.0	11.7	.99
Bin 13	11.0	11.7	+.26
Bin 14	13.6	12.0	2.13
Bin 15	8.9	12.0	4.66
Bin 16	9.9	11.7	4.18
Bin 18	11.3	11.7	2.71
Bin 19	8.5	11.0	1.33
Bin 20	10.1	10.5	1.08
Bin 21	9.9	10.5	2.16
Bin 23	14.0	11.7	.36
Bin 24	10.2	10.5	.34
Bin 25	11.2	11.7	2.98
Bin 26	12.2	11.7	1.29
Bin 28	13.0	11.7	2.95
Bin 29	10.8	10.5	1.06
Bin 30	14.0	11.5	.10
Average	10.5	11.5	2.17
Southeast Spanish:			
Bin 1	8.3	11.0	1.12
Bin 2	8.6	10.5	+1.61
Bin 3	7.0	8.3	+.20
Average	8.0	9.9	+.20
Virginia type:			
Bin A	8.1	10.0	.24
Bin C	8.1	9.5	2.47
Bin D	8.1	9.5	3.71
Average	8.1	9.7	2.16
1954 crop			
Virginia type:			
Bin B	9.0	8.3	1.58
Bin C	9.0	8.3	4.15
Bin D	11.0	8.5	2.79
Average	9.7	8.4	2.83

See footnote at end of table.

--Continued

Table 34.--Milling loss of farmers stock peanuts stored in bulk, by type and crop years--Continued

Crop year, type of peanuts, and bin number	Kernel moisture when loaded in	Length of storage	Milling loss 1/
	Percent	Months	Percent
1955 crop			
Southeast Spanish:			
Bin 2	6.2	9.0	1.42
Bin 3	6.4	8.7	2.24
Bin 5	12.3	10.3	.61
Average	8.3	9.3	1.41
Southwest Spanish:			
Bin 1	6.0	8.3	3.24
Bin 2	8.1	8.7	.28
Bin 4	8.1	8.7	+1.00
Bin 6	9.0	8.7	+1.00
Average	7.8	8.6	.45
Virginia type:			
Bin A	7.0	4.0	2.37
Bin B	7.0	4.0	2.10
Bin C	14.0	7.0	1.52
Bin D	16.0	7.0	2.29
Average	11.0	5.5	2.08
1956 crop			
Southwest Spanish:			
Bins 1 and 2	9.6	5.5	5.48
Bin 5	11.2	5.5	.24
Bin 6	11.2	5.5	4.38
Average	10.4	5.5	3.70
Virginia type:			
Bin A	12.0	6.3	+.09
Bin B	12.0	6.0	3.17
Bin C	9.0	6.0	3.32
Bin D	8.0	6.0	1.65
Average	10.3	6.1	1.99

1/ Milling loss is taken as the difference in weight of peanuts taken out of each bin and the total weight accounted for after shelling.

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